Sequence List

<110> Rosen et al.

<120> 50 Human Secreted Proteins

<130> PZ016P2

<150> US 60/262,066
<151> 2001-01-18

<150> US 09/722,329
<151> 2000-11-28

<150> US 09/262,109
<151> 1999-03-04

<150> PCT/US98/18360
<151> 1998-09-03

<150> US 60/057,626
<151> 1997-09-05

<150> US 60/057,663
<151> 1997-09-05

<150> US 60/057,669
<151> 1997-09-05

<150> US 60/058,667
<151> 1997-09-12

<150> US 60/058,974
<151> 1997-09-12

<150> US 60/058,973
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<150> US 60/058,666
<151> 1997-09-12

<150> US 60/090,112
<151> 1998-06-22

<160> 206

<170> PatentIn Ver. 2.0

<210> 1
<211> 733
<212> DNA
<213> Homo sapiens

<400> 1
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aattcgaggg tgcaccgtca gtcttcctct tccccccaaa acccaaggac accctcatga   120
tctcccggac tcctgaggtc acatgcgtgg tggtggacgt aagccacgaa gaccctgagg   180
tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg   240
aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact   300
ggctgaatgg caaggagtac aagtgcaagg tctccaacaa agccctccca acccccatcg   360

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agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc    420
catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct    480
atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagaac aactacaaga    540
ccacgcctcc cgtgctggac tccgacggct ccttcttcct ctacagcaag ctcaccgtgg    600
acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggctctgc    660
acaaccacta cacgcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc    720
gactctagag gat                                                       733
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<210> 2
<211> 5
<212> PRT
<213> Homo sapiens

<220>
<221> Site
<222> (3)
<223> Xaa equals any amino acid

<400> 2
Trp Ser Xaa Trp Ser
 1   5

<210> 3
<211> 86
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> Synthetic sequence with 4 tandem copies of the GAS binding site
      found in the IRF1 promoter (Rothman et al., Immunity 1:457-468
      (1994)), 18 nucleotides complementary to the SV40 early promoter,
      and a Xho I restriction site.

<400> 3
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gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc     60
cccgaaatat ctgccatctc aattag                                         86
```

<210> 4
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> Synthetic sequence complementary to the SV40 promter; includes a
      Hind III restriction site.

<400> 4
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gcggcaagct ttttgcaaag cctaggc                                        27
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<210> 5
<211> 271
<212> DNA
<213> Artificial Sequence

<220>
<221> Protein_Bind
<223> Synthetic promoter for use in biological assays; includes GAS
      binding sites found in the IRF1 promoter (Rothman et al., Immunity
      1:457-468 (1994)).

<400> 5
ctcgagattt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg   60
aaatatctgc catctcaatt agtcagcaac catagtcccg cccctaactc cgcccatccc   120
gccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat   180
ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt   240
ttttggaggc ctaggctttt gcaaaaagct t   271

<210> 6
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> Synthetic primer complementary to human genomic EGR-1 promoter
      sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a
      Xho I restriction site.

<400> 6
gcgctcgagg gatgacagcg atagaacccc gg   32

<210> 7
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> Synthetic primer complementary to human genomic EGR-1 promoter
      sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a
      Hind III restriction site.

<400> 7
gcgaagcttc gcgactcccc ggatccgcct c   31

<210> 8
<211> 12
<212> DNA
<213> Homo sapiens

<400> 8
ggggactttc cc   12

<210> 9
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> Synthetic primer with 4 tandem copies of the NF-KB binding site
      (GGGGACTTTCCC), 18 nucleotides complementary to the 5' end of the
      SV40 early promoter sequence, and a XhoI restriction site.

<400> 9
gcggcctcga ggggactttc ccggggactt tccggggact ttccggggact tccatcctg   60
ccatctcaat tag   73

<210> 10
<211> 256

3

<212> DNA
<213> Artificial Sequence

<220>
<221> Protein_Bind
<223> Synthetic promoter for use in biological assays; includes NF-KB
      binding sites.

<400> 10
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caattagtca gcaaccatag tcccgccct aactccgccc atcccgcccc taactccgcc       120
cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga      180
ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg      240
cttttgcaaa aagctt                                                      256
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<210> 11
<211> 1110
<212> DNA
<213> Homo sapiens

<400> 11
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gaattcggca cgagcttggt tcggggggga gcaaaatcca gaatctgcta aacaccaatg      60
ctgtcactca gagtttgtgt atctgctgtc tgtggagctc tggaccaggc ttgagggacg     120
cctgggggttt ccacccacat ctgggcaaa ccagacccccc aagtcactga catgtcggtt    180
tttctactaa tcacgttggc tttggcaatt ctgtatataa taagaagtat tgtgttctca     240
cttgcacttk ggcagaacgg ttcactccaa ggctgaatga ctgccacgga ccatccccca     300
gcaggggtcc tgggggtttag tggtttgatt ctgagcacct ctamgcamag agccccttag    360
tgggttccct aactggacgg ctaacccctgs tgtggaatct gactkkwtct ggaccgaaga    420
ggacaggctg ctctggagaa atccttgggc cttgtgcctg atgctggctc gggccaccct     480
ggccaccctc ccttcatgcc ccatgggacc aggcagcagc atgggagggg gcagcttcca     540
gaacacccctt ctgctagggg ctkctggcct ccctgctggc acggccacat ccatggtctg    600
agtgtgtggt tggaatgttt tatcaacacc agtcctcaca gcttccccag atgagcgaag     660
gggaagggga tggtgtgtgg ggggattgcc tcccttgagg ccccccagct cccaggatac      720
ttgctggcgg agctctgcct gcggtggagg ccctatgact tgacctccat cttctccctg     780
ggcccctcgc tggccctcac tggcaggggc tcctgcacgc ctgcaaggcc agagcctccc     840
gccaggtgca ggagaagtaa atgcaggcca gagataaatc gtatttccct ctaactcgga     900
tgtggagtga gaggaaggaa gcaggagtgg agctgagtgt tagtgagagg tggctgagaa      960
ggcggggtcc cgcttcttgc ttccttgggc atttgctgta ggtgctgggt ttcagcctgg     1020
aagggtgcag cctctgcact aagtctggtt tggtgaacgt tcatggcccc caatataaac    1080
agtgttctgg gcgttctttg tgactctcga                                     1110
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<210> 12
<211> 936
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (294)..(294)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (298)..(298)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (925)..(925)
<223> n equals a,t,g, or c

4

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<400> 12
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cctttaatc tgtgtttctg caagtgccat ccttgtacag tgttaagagg gtaacatggg        180
ttacctttgc accagcttca gtgttaagct caccctgttc tttgaagcac ccatgtcagt       240
attagaagaa taggcagcag ttccttagtt tacatatgtt tgkgcaatta tttnctgnac       300
ttttttgttc attaatttgt cagtattaca ccaaactgtt tttgcaacaa aaaaattttt       360
tttgcattca tttaatttta ggtcaaataa cattttattt atgtggctca ttttatattt       420
cctaatttta tttatttcat actgtagtgt acagtattat agttcttcaa tatatagata       480
tattttagta aaaaaggaac atgacgttga tcatttgggc aaatttacg taaagagaag        540
agcatttatt gtgttttgga acattaattg tgagatggga ttttttcaatt ttattatttt      600
attttttgttt ttttccaatt actggaaatt ccaaatttgg gaacttttga tacgatcttg      660
tgaaaacact gtattttcga ctgaaaattc cactttcttc atcttgtttt ttagctaaaa       720
agagggactg ttaaatacaa tgtatgatac catgacaaaa atctttcctg aattgtcttt       780
gtaaaagtat tattgaattt tcaatttgta atttcttttg aaaatgacca tgctcgaata       840
aaaatgtagc caaactaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa        900
aaaaaaaaaa aaaaaaaaaa aaaanaaaaa aaaaaa                                  936


<210> 13
<211> 921
<212> DNA
<213> Homo sapiens


<400> 13
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cgargctggc ggttcgcggc tgctgtgcgc cgcgctgctg gcggcgggct gcgccctggg       120
cctgcgcctg ggccgcgggc aggggcggc ggaccgggtg gcgctcatct ggctctgcta        180
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cgttgcaaat tccgatggct tgattgcttc tttatggaaa gaatatggca aagctgatgc       300
aagatgggtt tattttgatc caaccattgt gtctgtggaa attctgaccg tcgccctgga       360
tgggtctctg gcattgttcc tcatttatgc catagtcaaa gaaaaatatt accggcattt       420
cctgcagatc accctgtgcg tgtgcgagct gtatggctgc tggatgacct cctcccaga       480
gtggctcacc agaagcccca acctcaacac cagcaactgg ctgtactgtt ggctttacct       540
gttttttttt aacggtgtgt gggttctgat cccaggactg ctactgtggc agtcatggct       600
agaactcaag aaaatgcatc agaagaaac cagttcagtg aagaagtttc agtgaacttt        660
caaaaccagg cacgagccat tatctaactt catgaaccag aatgaatcaa atcttttgt        720
ttggccaaaa tgtaatacat tccagtctac actttgtttt tgtattgttg ctcctgaaca       780
acctgtttca aattggtttt aaggcgacca gttttcgttg tattgttgtt caattaaatg       840
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aaaaaaaaaa aaaaaaaaaa a                                                  921


<210> 14
<211> 2541
<212> DNA
<213> Homo sapiens


<400> 14
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gtggtgcagc atgacacggc ctgtaccatc gcagccacgg ccagcgtggt caaggagaag       180
ctggctattg cagcctgttc ccggggcgct tgcttcctct gcccgttctc tatacagacg       240
gaaggctcct caggagcaac agagaagatg aagaaagggt tatctgactt cctagggggtg       300
atctcagaca ccttttgcccc ttcgccagac aaaaccatcg actgcgatgt catcaccctg       360
atgggcacac cgtctggcac agctgagccc tatgatggca ccaaggctcg cctctatagc       420
ctgcagtcgg acccagcaac ctactgtaat gaaccagayg gcccccggga attgtttgac       480
gcctggcttt cccagttctg cttggaggag aagaaggggg agatctcaga gctccttgta       540
ggcagcccct ccatccgggc cctctacacc aagatggttc cagcagctgt ttcccattca       600
gaattctggc atcggtattt ctataaagtc catcggttag agcaggagca ggcccggagg       660
acgccctgaa gcagcgggcg gaacagagca tctytgaaga gcccggctgg gaggaggagg       720
aagaggagct catggggcatt tcacccatat ctccaaaaga ggcaaaggtt cctgtggcca       780
aaatttctac attccctgaa ggagaacctg gcccccagag cccctgtgaa gagaatctgg       840
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5

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tgacttcagt tgagccccca gcagaggtga ctccatcaga gagcagtgag agcatctccc    900
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tgtcccaaaa gctgctagag gcatccttgg aggaacaggg cctggctgtg gatgtgggtg   1020
aractggacc ctcacccct attcactcca agccctaac gcctgctggc cacagattct   1080
ggtggctccc tgctggccct cttgggcctc tgctcacacc tgggaagggg ctctctaaat   1140
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cctcctcacc agaagagcct gtgttttct gctgaacacc cactgttcct gaggactcct   1260
gctgggaagt cccaagggat agttctagcc cttctgcctg tgtagacaga agctaaacca   1320
ccagtctctc tcggaggaag ctgagacaac atactctgtc catacataag caggcaggga   1380
gggccatgcc acctaccctt ggctaaacag ggacagtgaa cacattttgg ttcctatccc   1440
agtgggtaag aggcacttat ctctgggaaa tttgcctctc ttgggactct ccccctccca   1500
ggcattttcc attcctggaa aggctccttt ggggttcaga atccagagac caaaccctga   1560
cccacctcct tcctttcctc cagcccacgc tggtctgtcc ccatgccttc ccagggcttc   1620
ttcatgtcag atgcacccaa gtccttagcc cagctgtgcc acctgcagga gttcgctctt   1680
gcgtttcttc ccctccccaa gaagggaggg ggctacttca ggcccttctg tgtgttgcct   1740
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gaactttgtc ctgaaccttt tacagacttg ccgttaacag cattaaagtg attcacccga   2460
agctgaaaaa aaaaaaaaa aaaaaaaaa aaaaaaact cgagggggg cccgtaccca   2520
atcgcctgtg atgtatcgta t                                              2541
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<210> 15
<211> 1046
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (20)..(21)
<223> n equals a,t,g, or c

<400> 15

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agtgaatcct gagtgggggtn ntctttagcc taaacctgga gtcaccacag agctttata     60
aacagtgaga aacctactac ttcctacaga aactgtgctg tctgcaaagc tcagcgtctg    120
ctccagcctg aatccccagg ccctgtccct gtacacacct agttttgagg tcaggacatc    180
acaaacatc tgccaacatc gaaaagtcat caggagccac ccagacgtgg ggtgtattgg    240
tgggaagaag gagcatctta gtctgcttcc ttctgaggcc cacagttcca gaaggactag    300
cgtcctcaga gcatgtggta gtggctgttc ttgtcttttc ctggtggtgg ggcctggtga    360
ccctaacac caacggagct gttcccaggt tcatttcgtc ccttttctg tggtgagatg    420
aggctcctcc tgccctcctt gctgggtggt ctttctgttt tgaccacatc ccttggaagc    480
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gggctggtgg atgctgagta tttgcattca gagccttagg cattgacctt ggctttctgg    600
gaccctacgc ccctctgttt gcctttgtca gtagagacct tctcacatta gggattcatt    660
ttttccaaga ctgtttgcta aggtgtgtgt caaacttcct cccagagcag tgacatggat    720
gggaattgtg agtgtgttga gagacctacc ctaaagatg gggctgcagt catcctcagg    780
ggacctcctg ttctcagctc cacctcagcc acacttggct gtgggtcagc ttcttctgaa    840
tcagcatccg caggacagcg ccacccagcc ctgccacact tgcttcctcc gcgcttcttc    900
agaggctgga gcccaccccc atgctcgtcg tctgttctgc ttttttgatg cacttacttg    960
tccctttcag cgtattgctt atgtcctatg ttggttaaaa aaaaaaaaa aaaactcgag   1020
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<210> 16

<211> 982
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (4)..(4)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (30)..(31)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (149)..(149)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (940)..(940)
<223> n equals a,t,g, or c

<400> 16
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tcgncccacg cgtccgcgga cgcgtgggtn nctaaccttt ggtttgcgga cggtcgggtg     60
tattctccgc cgcccccacg ccctcgaggt ccccgccacc gaaccagcgg cggaccggcc    120
cgcgcctccc gcggcattcc cgcaccggnt cgctcctcgc tggggcggga cctggcctgg    180
cggctctggt cactatgagt gaaacatctt tcaacctaat atcagaaaaa tgtgacattc    240
tatccattct tcgggaccat cctgaaaaca ggatttaccg gaggaaaatc gaggaactca    300
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tgggctattc ctacctggag tccctgctgg ggaagagcag ggagatcttc aagttcaaag    420
aacgcgtact gcagacccca aatgaccttc tggctgctgg ctttgaggag cacaagttca    480
gaaacttctt caatgctttt acagtgtggt ggaactggta gagaaggatg gctcagtgtc    540
cagcctgctg aargtgtttc aacgaccaga gtgcctcggg accacatcgt gcagttcctg    600
cgcctgctca mgtcggsctt catcaggaac cgagcagact tcttccggca cttcattgat    660
gargagatgg acatcaaaga cttctgcact cacgaagtag agcccatggc camggagtgt    720
gaccacatcc agatcacggc gttgtcgcag gccctgagca ttgccctgca agtggagtac    780
gtggacgaga tggataccgc cctgaaccac cacgtgttcc ctgaggccgc cacccccttcc    840
gtttacctgc tctataaaac atcccactac aacatccttt atgcagccga taaacattga    900
ttaattttag gccatgcagt ggaacctgtc acctaatggn actgcattct gaatggaaaa    960
aaaaaaaaaa aaaaaaactc ga                                            982
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<210> 17
<211> 3091
<212> DNA
<213> Homo sapiens

<400> 17
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aaaccggaaa gtttgtagga aaattgctgc acatggcctt tgcagaaaag agagccttca     60
aaacctctta cattccagta gaaaactctc tctgcaagtc cttaactttg ttcactcatt    120
ccaggaaggt gcttcaatat tggatattca cacagagccc agttttcaa  gtttgctttc    180
acagtcatcg tatgctgaca tgggtgttcc acttcctgca aaaaacttaa tatttaaaga    240
tggtgtctta tcagaakgga gtggacggtc accttcctca cttcttattg ctaatctcca    300
tttgcaataa tttggttaca ccatttgttg ctcacacttt ctgccttttt tctttcttaa    360
cgttagcttt atagtgtcag ccactaaaaa gcatcctgct gctgcagtgc aattcttgct    420
taactaatat taaaagttgg ggaacatatt catgtttct  gaagttttgc tcattattgc    480
acatcttatt gcgacaaagt gctttttagc agccagcact gtattttta  ccttgagaca    540
atctgcattt cttttataaa actaagtata tactttatag gctttatgat gactgttatg    600
tttataagca gtcactatga aaattgcaat ggtaatttta tatgttagtt tatcaaacat    660
aaatcttgtt taatttata  ttttgttacc tatactttgg gggatcaagg gaagagatgg    720
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7

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aactcttcct ctgaaaaggc ttcttggtac ttaaagtagt aaaactataa aacaataaac    780
atccagtatt gagagatgat atgatagggc attatgaatt cctatgggtg tctgtaaatt    840
atgtatgtca gttggacatt gtagaaggta tgtaaatcag catagttgtg tataacttaa    900
ccttgattta taaggtctta agattatgac tattcattga catctcatga gaagctttag    960
aagactttct atttttaaac accatttata tgtggacttc tgttgtcact gactttgggc   1020
tttatatttt catagagtct ttatggaaaa aatagaattt attttccact cttgtagcta   1080
tagctgctgc acactttcac cctgatttat tttttgttt cttagctttg atgttttcaa   1140
accaaggatt gtgattttag gttagaatta catattagaa gcattaagac tatgtctttg   1200
gatcagaatg ctttagtgat aaacctactt tgaagacata ctcttaagca atctggatct   1260
taaatttatg tgaatacttt tttagaaaat gataagaaa aatggaatta cttcaaagtg   1320
tttcttgagt cattgattct tttagcatct caaatgttaa ttagaataat tggaatcact   1380
ttttagactt ttcaagttac cttccttggg aagttgtgc agtgttatag tttagtttag   1440
ctcctcttac agggtaatgg tttgctagtt taaaactgta accaaacgaa ctggtcagac   1500
aacatatatc taaaacactt aaaatgttag gaagtttggg aatgttataa cctaaacgtt   1560
tttgctggta actttttgtt atttatagat atttgtgtat ttaacataca tacttcagga   1620
aatatatgcc tttcctaaaa cttaaccatg cattcaatac catggcctat ctatagaatt   1680
gaatattttg gaccatgtta tctgtggcac agtcagtgct gtgtttgagg taaatgcagt   1740
aacggttagt tttctacttt gtcttataga aggtagaaac catgtgtatg ttatgtttgt   1800
ctataaaaga aaaaatacta atattaaata atttcttacg actctgagtc actcacttat   1860
ttttccaata attgatattg tacattccta gtgccattag gtatgtatgt atgtaacttt   1920
tacagttttt cagctgaaag ttgtaagtat ttttttttt tgatcggggc tctttaatct   1980
cattttaatt tcctttgttt gaactgtagt tatttattcc tatattaacc atctaaacca   2040
actgtaatga catgtacact aatacagaat tgaacatttg tagttgttgg cagtgaaccc   2100
agttgttggt gaatttaaag cttaaaatat gggaatgatt tgctgctata tttcctttga   2160
gagagaaagg aggaagaaat agaacctaat agtgatcatg aattttaggg aaagtaccga   2220
agaaccatgg ggtcccctct ggtttcttgt gttgaatgag gcaagggtaa tcatctgatt   2280
ccgagctgaa gacctctggt cctcttaagg agggagagtg catttttaga gcttttagca   2340
aaatgtgaaa agctgatgtt tgcgccttgc tttgtgaatt tggctttgtt ttacttatac   2400
attaactcat gtaatctctt aaatcttaca agcattgatc catttcaaca aaaaggtaaa   2460
tttaaaatgc agactttgtt atttgccaaa gaagattcat gaaaaattta cgtccaatta   2520
ttttgcaaat agttaatttc atttggcttt ttaccatgtt ccttcctttc ttttttcccgc   2580
ttccttaatg taatttaaac cctggcaaac attctttaga aaccaagagg aaagaaagaa   2640
caaatatcaa aaaagacata gaatttaata ttgatacaat ttcacctcta aaatggattt   2700
gaagaaatgc aactttatat caaaaaatgt catctgattt cctttgtttc ttttttaaat   2760
tatgtaatca gatgatttta tgtttttttt tcaggggagc ggaatattgg tttcttttac   2820
ttgttgtttt cagtttttctc tgccattcat gtttctttttt tgtgttcagt gtttcaaata   2880
caatttgtat ttaaggattt taaaatacca aactgtaact gagtacagtg gatcgtttttc   2940
tgttaggatg ttaatattat acaatgaaat ctataaagtg ttgtcaattt gattattgac   3000
acatataaca tgtttacaaa taaactgtgg tattgatcaa gttactatga aaaaaaaaaa   3060
aaacccgggg ggggcccccgg aacccaatcc c                                 3091
```

<210> 18
<211> 796
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (398)..(398)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (780)..(780)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (787)..(787)
<223> n equals a,t,g, or c

<400> 18

```
gaattcggca cgagctcgtg ccgaattcgg cacgagtcag attgaaggtg gttggttttt      60
attattattt agtgtgattg atagtatcta gaatggcagg tggtgcataa aagttaaaga     120
gaggggaaag attacttagt ttggttatac agttataaac accatgcagt gtattcggtg     180
gactgtgcta tttctgttta tccttttgggt tttggtttttt gtttttttttt ttgccttcac     240
agtgagactg caaatgattg ttctcataac gtatattatt aataaatgtg gtcctataat     300
ttatactgaa attaccttag gatatttttg cataatactc tcttactgct tacattctat     360
aaattttttca cgtgataatt gtctttgcgt aactgggnaa aaatgccgaa taacttcctt     420
tattatctgg aaaaattaaa tttgttcatt tatattttct acttactaaa ttgagttttt     480
aaaaagactt agtgtgacat ttgacagtgt cttttcaaacg aacttctcta acaagtttat     540
agttattttc ctgtttcaac actattagaa gtcttataaa ttatgctaat tagcatggca     600
gtcatgttac acactcttaa cattgccaaa gaactgttga tttcgtttga gaaaaccctg     660
ggactgtgtg tgtgtaggtt ttgtttttgat tttaacaacc aaaaatagaa ataaaattag     720
aactgcgttt taagttctaa aaaaaaaatt taaaaaaaaa aaatttaaaa atttgggacn     780
aaggcgnggg ggtccc                                                      796
```

<210> 19
<211> 822
<212> DNA
<213> Homo sapiens

<400> 19

```
gatttaccac ctagaaatgg tgtttttaaa tttcttaata tatctccttc ttgtctttttt      60
ctatatatct ttatttcata gtcgagacaa ttttatactc tgaattttta tcatataagt     120
atctacccac attatcagga atgctttgta agcatcattt taatggcttc aaaatagtct     180
atgatttaga taacgatgat ttggccattt ttgtggtcac ctaccactta ttggagacat     240
attatattct gagaatatta tgccatttat aggcattaat tccaatatgc aaaagaactt     300
tgaaatgaag gcgttattat tcccaatttt acagatctg aaactgaagc tcagagaggt     360
taagttgccc gaggccatac aggacaatag gggcaaagat ggttttgaat caatggatgt     420
ctgacgacaa aggccatgat ctcaccactg cactgcactg tctcctgaag cccttttgtgt     480
gaaatgatta aatacatcat gattatgtca cacttcactt acccttctcc aggtagttga     540
acatctggat gatttttacat cgtcaaatac aaggttgtta acaattaaag gataaaacag     600
ggtgcggccg gaaaggcggc cgcccctcg cccatcatgc aatgcacatt cgtggggaac     660
ctggcgctaa gccattcgta gatgacctgc ttctggctcg gggtttcata tgtagcagag     720
cagctccctc gctgcaatct attgaaagtc agccctcgac acaagggttt gtaaaaaaat     780
aaataaataa aacaaaaaac aaaaaaaaaa aaaaaactc ga                          822
```

<210> 20
<211> 657
<212> DNA
<213> Homo sapiens

<400> 20

```
cgcggcacga gacgaaatga ttcagttctg gacatggcaa gacatgtgcc actctatcgg      60
gcactgctgg aattgcttcg ggccattgct tcttgtgctg ccatggtgcc cctattgttg     120
ccccttttcta cagagaacgg tgaagaggaa gaagaacagt cagaatgtca aacttctgtt     180
ggtacattgt tagccaaaat gaagacctgt gttgatacct ataccaaccg tttaaggtac     240
tatatacaat gttcattttct cttgagtttg cctctaacaa tgttttttaaa ataactccat     300
gggtgttttt gtttttcagt gatatgtgct ttttaaaagc mtatacaccc tcggctgggt     360
tgcggtggct cacacctgtg ggtccccagc actgtgggag gccgaggtgg gatggatccc     420
cgaggtcggg agatcgagac catcctggct aacatggtga aaccccgttc tactaaaaat     480
accaaaaaat tagccaggca tggtggcggg cacctgtggt cccagctgct cgggaggctg     540
aggcaggaga atggcgtgaa cccgggaggc ggaggttgca gtgagccgag atcgcgccac     600
tgcactccag cctgggtgac agagagctcc gtctcaaaaa aaaaaaaaaa aaaaaaa        657
```

<210> 21
<211> 632
<212> DNA
<213> Homo sapiens

<220>

9

<221> misc_feature
<222> (557)..(557)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (571)..(571)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (608)..(608)
<223> n equals a,t,g, or c

<400> 21

```
ggcacgagcc gcagctcccc tcttccttcc tctgcagacg ctggcgctgt ctgccggagg      60
tgttgcccaa aaggccctag tggggcgtgg tcagctccac ctcctgatcc tgtgtgtcct     120
ccgacatgct gctgattcta gtgacccctg tccccaccag gctcagagcc agaccgcgcc     180
tggaccttct tgttctgact ccacgtgcct gcccggcctc cagggtgcgg gggcgccttt     240
cttgcaggcg gaccctgccc aggatggggc cagcctcgtg ctcagctttg gccacaaatg     300
cagcccctgg cccaccccac cctgccggcc ctgccttctc cagtatttcc cacatggcca     360
cgactcctca gtcactagag cctcctgctg ggaacagtgt cccccagagc ctcatgtcta     420
tcctagaccc tgcaagcagc tgggtcccca agagtgcatc tccccctaga gttgcctgcc     480
catgcccacc tgctttgtaa ccttcccagg agattcatgc ttgctctgca cagcagggyt     540
cgaggsccag gscatgnama sggaaytgcc ntcaggtttg ggtcaractg catcctgggg     600
gcatctgntg gaaatgtgag cacacaaacc aa                                   632
```

<210> 22
<211> 865
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (365)..(365)
<223> n equals a,t,g, or c

<400> 22

```
gaattcggca cgagtgccct cgtatctaca tgctcaccta taccctcacc cgacttttcc      60
ctcctcctca ccccatcaaa ggcaataatg cacctgtttt tattcatctg ggcctttggt     120
cttcccttc atatttcccg agacctcgct ttcttctttc tcttgtattt tttatttttc      180
tatctcttat gtgtccttct ctaaaagtta taaacatgca caaaatcttt ccatctcaaa     240
atataatacc ctttacctgg tgtcccctgc aggccatctt ctttatttat ttactttgc      300
gccaggtctt cctctgaagc ccaggctggg tgcgtacgcg atcatggctc actgcagcct     360
cggantcccg ggctcaagcg atcctcctgc ttggaggatc agatttttta tccttgcaga     420
agtgataata tggcttcttc ctcatctcct aaacaccagt catctgacat acactgcaga     480
tctaaaatgg gccttacgtg ttctgccctt ccttgcctac ctgttgagct tgcaccgctt     540
ctgtgagtct ccccccaccc acaagagatc cttcttcctt cgcgctccac taacccgaca     600
taaatgttta tcatataaag ttttccgttg cactcttgtg tttatgtctc ctggcttctt     660
caccaagctg tgtgacagct gggccctgtc gcctccttcc tcgtatatgc agcgactatc     720
gcagagccgc ttaatctttg ttgaaggcag ctgcggttca gccctgaggg ccacgggacg     780
gacgccactc attcagycct accgggggcg ctgtggcagc cggcattggt tgccgtgccc     840
tccgcttgtc tcgctcagcc ctcga                                          865
```

<210> 23
<211> 1222
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

10

<222> (772)..(772)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (796)..(796)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (823)..(823)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (855)..(855)
<223> n equals a,t,g, or c

<400> 23

```
gaattcggca cgagcacatg wktatatata tattactgtt ttgcctccat tgaacatgcc      60
ttctacttcc taatttgtgc cagaattgac tagtagacgc tatgaatgca tcatgctctt     120
tggcccattt cgaacactca ggtatgtctg tactcttagt tcatctattc atcattgttt     180
ctacagttcc ctcatgcttt aaaaaatata tggcttttat aatttatcca gctttttctt     240
gtcattttaa taagagtatg tgtcttatac aactactaca ttcatcccag aagtagaagc     300
aaactattat aatcccatta tttttattcc tactattctc ttttcagaat ttcttttaga     360
tattccttgg atagttttat tcaatcctcc atggctttca gcttatctta tgttctatct     420
tttggttcat attctgcatt ctggataatt cttcatcttc actttctagt ttgttgatat     480
tccttttggt gactataagc tgctctttaa aatggtcaat aatgcctaag atgtttatta     540
tcttgccctt tgcagaaaaa aattttcagc ttttgctctg gaatgatttt gcatctcttc     600
caccaaactt ccagtgtatc aatggccaga aaataatcta tatgttaatt tgttaatttg     660
atggttcatg gttcaaggct gtataattta aaagtttgaa gtcaaacaac acatgatggg     720
ataatcctga tgttacagat tctcaaggga aaatatgttt ttgttttttc tnccaattgt     780
tctartattt acaganaaac ttcttaatta tactgggttg gtnaataart attttttcttw     840
actctttcaa tctangtcca rctatgcatc accccttcgc tgatgagcat taagaaaatc     900
caaatttggc ccgggcgcgg tggctcacgc ttgtaatccc agcactttgg gaggccgagg     960
cgggtggatc acgaggtcag gagatcgaga ccatcctggc taacacggtg aaaccccgtc    1020
tctactaaaa atacaaaaaa aaattagctg ggcgtgatgg cgggcgcctg tagtcccagc    1080
tactcgggag gctgcggcag gagaatggcg tgaacccggg aggcggagct tgcagtgagc    1140
caagattgcg ccactgcact cccgcctggg ccacagagcg agactccgtc tcaaaaaaaa    1200
aaaaaaaaaa aaaaaaactc ga                                             1222
```

<210> 24
<211> 1421
<212> DNA
<213> Homo sapiens

<400> 24

```
ggcagaggga gcggagagcg tgctaaccaa tgacttgagg gagtagggggg ccgggtttgg      60
gccctcagtt gctaagggct acccgagtgg gaagcggttc aagagatggg gtgaagggtg     120
gttcaccggt tcttcaagtc ctcagccttc tggcccgmgg aagttaagca accaagaggc     180
gggcctaaga ccggaagcag gaaggagggc gcaggaagca gggcgccgca gcctgtcgta     240
cggtccttct gtgggtctgt cggtgccgag ggcaggatgg agaagctgcg gctcctgggc     300
ctccgctacc aggagtacgt gactcgtcac ccggccgcca cggcccagct ggagacagca     360
gtgcggggct tcagttacct gctggcaggt cgattcgccg attcgcacga gctgtcagag     420
ctggtgtact ctgcctctaa cctgcttgtg ctgctcaatg acgggatcct acggaaggag     480
cttcggaaaa agttgcctgt gtcgctgtcc cagcagaagc tgctgacatg gctgagcgtg     540
ctggagtgcg tggaggtgtt catggagatg ggagctgcca aggtgtgggg tgaagtgggc     600
cgctggcttg tcatcgccct catccagctg gccaaggctg tactgcggat gctcctgctg     660
ctctggttca aggctggcct ccagacttca ccccctatcg ttccactgga cagagagacc     720
aggcacagcc cccggatggt gaccacagcc ywggyaacca tgagcagtcc tacgtgggga     780
agcggtcaaa ccgggtggtg cgaaccctcc agaacacgcc gtccctgcac tccaggcact     840
```

11

```
ggggagctcc ccagcagcgg gagggacggc agcagcagca tcacgaggag ctgagtgcga    900
cccccacccc cctggggctt gcaggagacc atcgcagagt ttttgtacat tgcccggccg    960
ctgctgcact tgctcagcct gggcctktgg ggtcarargt cgtggaaacc ctggctcttg   1020
gctggtgttg tggacgtgac cagcctgagc ctcctgagtg acagaaaggg cctgacccgg   1080
arggagcggc gggagctgcg gcgccggamc atcctgctgc tctactacct gctgcgctct   1140
cctttctacg accgcttctc cgaggccagg atcctcttcc tgctccagtt gctggccgac   1200
cacgtccctg gcgttggcct ggtcacaagg ccgctcatgg attacttgcc cacctggcag   1260
aaaatctact tctacagttg gggctgacag actcccggaa ggagggtgtg gggaggggtg   1320
ggcagggagc ccctcttccc taataaaact·gactccggca gcaaaaaaa aaaaaaaaaa   1380
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagggcggc c                       1421
```

<210> 25
<211> 638
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (597)..(597)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (628)..(628)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (630)..(630)
<223> n equals a,t,g, or c

<400> 25
```
cggcacgagt ttatttccaa ggtaagtagg ggtagactag aatggacata gcagctcctg     60
tcttatttgc tttaaggctg caatttctgt tcattctctt acccatgcac tttgaaattt    120
cattgctctg caaagtttcc actgaaacat caggtcgaga agacaaaatg tagagaatag    180
caaaccaaaa atatactctt cagagagccc agtgatggaa attatattct acgtaaggcc    240
attaaccagc tacaaagcag tagcagctaa ctaacctggg gataaaagac catctgctgg    300
ctgcatactg attccaagca taatgggtct cccattccca cctccacctg gctccacaat    360
tccctgcatg tcttttaacc tcctcttctt cagactcaat gcttccttat gcaactccag    420
aaacccagta tcttatttaa acacacctgc catttgaagt agacaggtca aggagaggta    480
ggtccttctt ctggtataac ctcaggttca tcatgggaat atagataagc tgtttcactt    540
tcttggccta tttactctcc tgtaaaaaga gggagttgca ggagattctt caaagcnaaa    600
ctgaatattt tgatggattg aaaaaaanan aaaaaaaa                            638
```

<210> 26
<211> 749
<212> DNA
<213> Homo sapiens

<400> 26
```
aaggccaagc caatggtaga agaaaacagc tttattgaag gggcagtgtt atagctccag     60
ccctgttaca actctgatta ctcctgcaca gcaggctctg gcagagacta gcagctcagg    120
gcagttttgc agtcatttat akswaytygg cacgagggca gattaagggg tgatttgtgc    180
aaaaatttct agggaatggg taataacttt tgggtcatcg agtcaatgcc atggaagaga    240
gggggggataa cccccctggtg ttgcgatggc aacggtaaac tgacatggca actgatgagc    300
gtgtcttacg gaaagctcat tccaccccag ccctgtttca gctagtcctc aatttggtcc    360
agtgtccgag ccctgcctct ggagtcaagt cccacctcct acctcataag gagagacata    420
aatcaatgga atagaatcga gagttccaga aataaactca tacctcgatg atcaattgat    480
tttcaacaac agtgccaaga ccattcagtk gggggaaaga atcatatttt caacaaatgg    540
tgccagataa cgacatccaa aggagtgcaa ctgggcccct gtctcacacc atctacagaa    600
attaagtcaa agtgcctcaa acactaagag ctaagactat aacattctta gaagaataca    660
```

12

```
gggttacctc tttatgatct tgatttggta attgattttt agataacact aaaagcacaa      720
gcaacaatag gaaaaaaaa aaaaaaaaa                                          749
```

<210> 27
<211> 788
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (290)..(290)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (768)..(768)
<223> n equals a,t,g, or c

<400> 27
```
aggggcmckg mctcccaccc accccatcac cagctttcca cttggaggcc ccctgtgccc       60
tgcagcctca gggtargccg tgggtcacca ggctggagar ggcccctgcc ttggccaggg      120
gtgcgaggtg acccggctgc attgctgggt gggagctgct gtctgttgtt caggggcctg      180
gcccccgccc tcccccccga ccccgacctc gcaaagsgca ctcccgggca gggtgtggtc      240
tggaargcgg ggctggcggg gacatgggtg ttctgcatct cctagcgcan ttcctgctgg      300
tggktggaag ggtgcctggt ttaggcgggg tcccaggagg gggtgagggg tgacaccttg      360
gggaggggc ctkcaaaggr cactgcctgt ggccacgtgg tgtctgtggg aattggtcct      420
ggggactttg atgggtgttt gcggccccag ttgccgccct gctccctctt ccagggctcc      480
tggcttgggc ccccgaccc ccctgctcag ctcgggaaaa tccccgtgcg gctccagccc      540
cgggtcacgc tcaggagcga tgagaggggc gccctggcca cgcttcagga aagcctgtgt      600
ctgcgcgcgg ggcaaggggc tccacgacaa aaggacaaga tttgacttaa attaagtttt      660
tcccttgagg atattttcat tttctttaaa agaatataat tttcttctaa gatcttggwa      720
aaaaaaaaaa aaaaaaaaaa aaaaaaaata cgtaggggg gtcccgtnac ccaattgtcc      780
tgacgtgg                                                               788
```

<210> 28
<211> 941
<212> DNA
<213> Homo sapiens

<400> 28
```
ggcacgagat tttggcaagt gctgttatgt gaacaccacc atcacaatca agatagtcta       60
tagttctagt acccctgcc ctgaaacttg cttgttctgt ttagtcagct cctctcccca      120
ccaccagccc ttgtcaactg actcatttc tgtctgtata gtttatatca tttccagaat      180
gtcatataaa tggaattcta gagtatgttt cctttggagt cgcacctttc acttaatgct      240
tctgagactc atctgtcttg ttgcatatat cagtacagaa gtcatttctt ttattgctga      300
gtagtaatct gtcatatgga tgttccacag tttgtttatc catttatcac tggtgggggat      360
acttgggktt tcagttttca gtgattatga agaaagctgc tgtcaacatt tgcaaacagt      420
ttgtgtgtcc acattgtckt agtaaataac taggagtgga attgccgggt tgtatggtaa      480
cagtatactt atctatgaaa aactgacaga ctttctaaa ataactgtac cattttacat      540
tcccaccacc agtgtatgaa agtcccagtt ccttaacttc actgacaatt ggtatgtcag      600
ggtttggttt catttttatt ttgttgttag gatttcaaag ggttatagcg ggatttcatt      660
ttggtttaa tttacacttc cctaatggcc attgagcatc tccactgctc gtttgctatc      720
catttgccta ttttctttg tgaactatgt tcaaatcttt tgtccatttt tttaaaacct      780
ggattgtttc ttattgattt ttgagagttc tttatatgtt ctggatagat atctttgtca      840
gttatgtgtt ttgcaaatat tgtataccat tatgtggctt gtgtttttat tccattaaca      900
gtattttca cacaagaaaa aaaaaaaaaa aaaaaaaaa a                           941
```

<210> 29
<211> 835
<212> DNA
<213> Homo sapiens

13

```
<400> 29
ggcacgagca caaaccctag aattcccagg gtacacctgt tagttgctaa agatatttca    60
agaacagtta tctctctggt aaagtttatt tgctcctgtg caaggtttca tttctttcaa   120
cagagtgaaa caacttgggg tacaatgtta ttgttagtat attttcttct tatgtctgta   180
atatttggca ctaaattctt tcctttaata atacacatgt ttaacccatg catacttaac   240
cttataaaac ttgttttttc tctcatgcct ggaagccatc aaactccaaa tgttcaggca   300
accagagcct cagatgatgg ctccgctttg ctaggaaccc ccagtagacc tctcggaagc   360
atccgacagc agtttacccc aaaagaatgc cccctgtcag caggaagcag ctaagaccag   420
tcattgtccc atattctcat ggcagttaga tacacctctt cagagagggg aaataatatg   480
ggagtgctag gaagggaaga acatggctgg ctagggctcc ataccctggc tagtcctggc   540
tagggctcca cactcacgga cctaactgag aacaggtatt tctcgcccaa atgttgcatt   600
tcccaagacc accctggctg gacattgaga ggaacacact gacaggcacc agcatgctgg   660
taggccactg actgacagaa caatgcagag tttggctggg gcagctggag gacagtctgg   720
gccactgagc agcctgactt caggggaaaa ccatctccct tctgactctc ccatctgctg   780
gtagctattt ccactcaata aaaccttgca ctcattaaaa aaaaaaaaa aaaaa         835
```

```
<210> 30
<211> 553
<212> DNA
<213> Homo sapiens
```

```
<400> 30
gtgtgccgga tttggttagc tgagcccacc gagaggcgcc tgcaggatga aagctctctg    60
tctcctcctc ctccctgtcc tggggctgtt ggtgtctagc aagaccctgt gctccatgga   120
agaagccatc aatgagagga tccaggaggt cgccggctcc ctaatattta gggcaataag   180
cagcattggc ctggagtgcc agagcgtcac ctccaggggg gacctggcta cttgcccccg   240
aggcttcgcc gtcaccggct gcacttgtgg ctccgcctgt ggctcgtggg atgtgcgcgc   300
cgagaccaca tgtcactgca gtgcgcggg catggccagg accggagcgc gctgctgtcg   360
tgtgcagccc tgaggtcgcg cgcagtggca acagcgcggg cggaggcggc tccaggtccg   420
gagggttgcg ggggagctgg aaataaacct ggagatgatg atgatgatga tgatggaaaa   480
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa   540
aaaaaaaaa aaa                                                       553
```

```
<210> 31
<211> 1346
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (637)..(637)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc_feature
<222> (850)..(850)
<223> n equals a,t,g, or c
```

```
<400> 31
ggtcgaccca cgcgtccgct gagagtagcc atgggctctg gaggagacag cctcctgggg    60
ggcaggggtt ccctgcctct gctgctcctg ctcatcatgg gaggcatggc tcaggactcc   120
ccgccccaga tcttagtcca cccccaggac cagctgttcc agggccctgg ccctgccagg   180
atgagctgcc gagcctcagg ccagccacct cccaccatcc gctggttgct gaatgggcag   240
cccctgagca tggtgccccc agacccacac cacctcctgc ctgatgggac ccttctgctg   300
ctacagcccc ctgcccgggg acatgcccac gatggccagg ccctgtccac agacctgggt   360
gtctacacat gtgaggccag caaccggctt ggcacggcag tcagcagagg cgctcggctg   420
tctgtggctg tcctccggga ggatttccag atccagcctc gggacatggt ggctgtggtg   480
ggtgagcagt ttactctgga atgtgggccg ccctgggggc acccagagcc cacagtctca   540
tggtggaaag atgggaaacc cctggccctc cagcccggaa ggcacacagt gtccgggggg   600
tccctgctga tggcaagagc agagaagagt gacgaangga cctacatgtg tgtggccacc   660
```

```
aacagcgcag gacacaggga gagccgcgca gcccgggttt ccatccagga gccccaggac    720
tacacggagc ctgtggagct tctggctgtg cgaattcagc tggaaaatgt gacactsctg    780
aacccggatc ctgcagargg ccccaagcct agaccggcgg tgtggctcar ctggaargtc    840
agtggccctn tgcgcctgcc caatcttaca cggccttgtt caggacccag actgccccgg    900
gaggccaggg agctccgtgg gcagaggagg aacacaggat aaaaatggaa gttctcaata    960
aaaagaagat gtattgggaa agaaaactac aaacttttac caaggaatgg cctgtttcct   1020
catttaaccg gccctttccc aattcgccct aagactttgg gggtggctct cttgtaatta   1080
atctgtgttg gcaaagaatg tctggaacat ggacttggcg gtcagtaacc tgtaacagag   1140
ctacaactag gaaaattaga gtggtagtag tcacttattt aagaattcat tcaggtaaac   1200
agctgcaccc tctgtacccc ttaagtggca aagaagctgt tatagtcttc tgaaaattat   1260
cactatgagt gctataattc tgaatataat gtctcttaat tagaattcat acaagaacca   1320
aaaaaaaaaa aaaaaaaagg gcggcc                                        1346
```

<210> 32
<211> 626
<212> DNA
<213> Homo sapiens

<400> 32
```
ggcacgagaa acattttcct ttgggttttt ttttctttc tttttctcc cctttactct      60
ttgggtggtg ttgcttttcc tttcctttc cctttgagat ttttttgttg ttgtttcctt    120
tttgtatttt actgatatca ccaggatagt ttactctcct tctagcttc tgcttaccgc    180
acactggata acacacacat acacacccac aaaaatgctc atgaacccaa tccggagaag    240
gttccagcag gtcccccacc ctcccctcct cctcctactt ctcctcttga cagcgaggac    300
aggaggggga caaggggaca cctgggcaga cccgccggct ctccctcacc cccacccgc     360
ccctcacatc atactccaat cataaccttg tatattacgc agtcattttg gttttcgcgg    420
acgcgcctac ctaagtacca tttacagaaa gtgactctgg ctggtcatta ttttgtttat    480
ttgttcccta tgcaaaaaaa aaatgaaaat gaaaaaaggg ggattccata aaagattcaa    540
taaaagacaa aaaaaagaa aaagaaaaa aatgtataaa aattaaacaa gctatgcttc      600
gactcttaaa aaaaaaaaa aaaaaa                                          626
```

<210> 33
<211> 1018
<212> DNA
<213> Homo sapiens

<400> 33
```
ccacgcgtcc gcggacgcgt ggctttgaac cattcaaata ccacattagg caagactgtg      60
ataggccttt tgtcttcaaa tacaacaggc ctccactgac ccatccctca aagcagaagg    120
accctttgag gagagtacag atgggattcc acagtggggt gggtggaatg gaaacctgta    180
ctagaccacc cagaggttcc ttctaaccca ctggtttggt ggggaactca cagtaattcc    240
aaatgtacaa tcagattcta gggtctgttt tcggaagaag caagaattat cagtggcacc    300
ctccccactg cccccagtgt aaaacaatag acattctgtg aaatgcaaag ctattctttg    360
gtttttctag tagtttatct cattttaccc tattcttcct ttaaggaaaa ctcaatcttt    420
atcacagtca attagagcga tcccaaggca tgggaccagg cctgcttgcc tatgtgtgat    480
ggcaattgga gatctggatt tagcactggg gtctcagcac cctgcaggtg tctgagacta    540
agtgatctgc cctccaggtg gcgatcacct tctgctccta ggtacccca ctggcaaggc      600
caaggtctcc tccacgtttt ttctgcaatt aataatgtca tttaaaaaat gagcaaagcc    660
ttatccgaat cggatatagc aactaaagtc aatacatttt gcaggaggct aagtgtaaga    720
gtgtgtgtgt gtgtgtgtgc gtgcatgtgt gtgtgtgtgt atgtgtgtga ataagtcgac    780
ataaagtctt taattttgag caccttacca aacataacaa taatccatta tccttttggc    840
aacaccacaa agatcgcatc tgttaaacag gtacaagttg acatgaggtt agtttaattg    900
tacaccatga tattggtggt atttatgctg ttaagtccaa acctttatct gtctgttatt    960
cttaatgttg aataaacttt gaattttttc ctttcaaaaa aaaaaaaaa aaaaaaaa      1018
```

<210> 34
<211> 767
<212> DNA
<213> Homo sapiens

<220>

15

<221> misc_feature
<222> (292)..(292)
<223> n equals a,t,g, or c

<400> 34

```
cggcacgagg ggacagatgg ggtttagggg gttgtragcc ggggcttcar agctctgctg      60
tctgggggta ggggggagct ggaagctgga ggtgtggcag ccatggctct aggagccctg     120
agcctgaatg ctgcccttgc accctgggcc tcctcccctg gcccagacct ccccattctr     180
aaagagaagc agccctctc tagttacccg tyttctgggg gagccaggtt ccgattaccc      240
accacctccc tgggcacacg tgaaagttct tcatttacca cctgtyttgt gncaggagcg     300
ggattgtgaa ggtcatggat gactaccagg tcatggatga atcctctaca acctcagctt     360
cgagatgaac ttcaatgaca agtgagtggg agcttggccc ccatgccagg tgcggggtgg     420
agcatgaggg gagctgctga gctgcagagg ctcccaaatg ccccagctgc cacagtctgt     480
gcaatctccc cagaaacacc ccactgagat ttcagaggcc agggctccac acatgggccg     540
ggaccagcca gggccaggtg gccgaaggaa ttcatttggg cctcttggcc tcagctgctc     600
cccaaccctg tctctgtcct gtcaatggcc tggcacatgt tttgcttgtt gttttttgaa     660
acagagtttt gctttgtcac tccagtctgg gcaatagtga gtcggtcaaa ttccatttcc     720
ccctccgccc catacctctt caaatgttta aaaaaaaaa aaaaaaa                     767
```

<210> 35
<211> 840
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (364)..(364)
<223> n equals a,t,g, or c

<400> 35

```
agattttttt tttttttaatg tccggagaag gaactctcag attactctcc tccctgcaaa     60
acgactattt accacctccc ctttgcttca acttggtctg agcgtcttta acctcaccat     120
tttgaatgtg cgcaaaatga ttaccagtca tctgagggag gccaaattaa aggtgcatct     180
gcaagaggag ctctggcctg acatcgctaa ctgagagcag ccctggcgga aaggtgctga     240
tcccgggagt agagcgactg ctgcggctcg agcggggtgt ctgcgtgccg agcctcactg     300
acaatcgggg aaaatgcaga cgcccagcaa aacgacggca acagaaggct cctcggggga     360
gggntgctgc aggcctgtgg cgtaagatgg ttccgctcta cgcgggktga cgggaaaccg     420
cagaagtggg tgtgaggtgt tggttggggg gcaaactctt gtacagtggc gagtgtaggg     480
gaaagccagc gggctccttg gccaagtcac caaggacagc agaagaggca gcagtaaaga     540
gcggcagcga agaccccgat accaaccaat gtcatctgtc ggggggcggc gggcgcgacc     600
gtcccggata ggagcgcggc ccgggtccgg gctggacagg gcccaggagg cgaagaaggc     660
ctcccacagc catcaacccc acccaccatg gccggcgcag caggccaggg acaagccccg     720
ctccttccga agctagagac agagaaactg aggagctgaa cgcagcaatt tcctcgcccc     780
gacccccaca ctcccgacag cggaacaagc cagactgaaa aaaaaaaaa aaaaactcga     840
```

<210> 36
<211> 1148
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (820)..(820)
<223> n equals a,t,g, or c

<400> 36

```
atcagaccat cagaaggatt tgtataaaga gtgactctcc tatgaaggta aaggccaccc     60
ctcttcagtt ccagtgactg agatacattt ttccaatcct gggggcaaat acagacacag     120
caagttcctt cttccctttg gaaatttggc agctgccttc accagtgagc acaaagccac     180
atttcaaagg aaactgacaa attatcccca gctgccagaa gaagaaatcc tcactggacg     240
gcttcctgtt tcctgtggtt cattatctga ttggctgcag ggatgaaagt ttttaagttc     300
```

16

```
ataggactga tgatcctcct cacctctgcg ttttcagccg gttcaggaca aagtccaatg    360
actgtgctgt gctccataga ctggttcatg gtcacagtgc accccttcat gctaaacaac    420
gatgtgtgtg tacactttca tgaactacac ttgggcctgg gttgccccc aaaccatgtt    480
cagccacacg cctaccagtt cacctaccgt gttactgaat gtggcatcag ggccaaagct    540
gtctctcagg acatggttat ctacagcact gagatacact actcttctaa gggcacgcca    600
tctaagtttg tgatcccagt gtcatgtgct gcccccaaa agtccccatg gctcaccaag    660
ccctgctcca tgagagtagc cagcaagagc agggccacag ccagaaggat gagaaatgct    720
acgaggtgtt cagcttgtca cagtccagtc aaaggcccaa ctgcgattgt ccaccttgtg    780
tcttcagtga agaagagcat acccaggtcc cttgtcaccn aagcaggggc tcaggaggct    840
caacctctgc agccatctca ctttcttgat atttctgagg attggtctct tcacacagat    900
gatatgattg ggtccatgtg atcctcaggt ttggggtctc ctgaagatgc tatttctaga    960
attagtatat agtgtacaaa tgtctgacaa ataagtgctc ttgtgaccct catgtgagca   1020
cttttgagaa agagaaacct atagcaactt catgaattaa gccttttct atatttttat   1080
attcatgtgt aaacaaaaaa taaaataaaa ttctgatcgc ataaaaaaa aaaaaaaaa   1140
gggcggcc                                                          1148
```

```
<210> 37
<211> 1367
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (15)..(15)
<223> n equals a,t,g, or c


<220>
<221> misc_feature
<222> (28)..(28)
<223> n equals a,t,g, or c


<220>
<221> misc_feature
<222> (480)..(480)
<223> n equals a,t,g, or c


<220>
<221> misc_feature
<222> (796)..(796)
<223> n equals a,t,g, or c


<220>
<221> misc_feature
<222> (896)..(896)
<223> n equals a,t,g, or c


<220>
<221> misc_feature
<222> (1243)..(1243)
<223> n equals a,t,g, or c


<400> 37
atgtatagat catanaggca aacggtanct gacagtaccg gtccgaattc ccggtcgacc     60
cacgcgtccg tgtttctact ctttgactat tatgaataat gctgctaaga acattaatgt    120
acaagtttct gtgtggacat atgctttcat ttctcttatt ttcattttat tccacctagg    180
agtggaattg ctgggttgta tggtagtgtt atgtttaact gtttgagaaa ccaccaaatt    240
atttttgttt tcttttttaag atgaggtctc gctatgttgc ccaggctggt cttgaactcc    300
tggcctcaag tgatcctccc acctcagcat cccaaagcgc tgggattaca ggcatgaggc    360
atgccaccat tacacacccg gccagccacc aaattatttt ccaaagcagc tacaccacct    420
tacattccca ccagcagtgt atgagcatcc catctctcta cacctcraca gtaattttgn    480
gtctgtctaa tttactatag ccattctagt gggtaagaac tcacacacac ttctgcttct    540
```

17

```
tcttggcaat gcatccatgt ggagccatgc tggggctttc caggactggc tgactttcac    600
ctccacttgt agaaagaagg acatatctgg caatactgta gccccagagc ttggtccagg    660
gcctagaact aaggatgcac ccctgaatgg ctcctggatg gataatgggc tgggtgaggg    720
aggtacatgg tgagggggat actggtttca gtgcaattgg agctcagtga tatctgaraa    780
rtctgggggc tggganggga gatgtgcata tctaaggaca ccacccaccg tatgataggg    840
twtagaagar gcagggtaac ctgtgtaraa atcagctccc arcctcctgc tcgganctta    900
ccctcaagga atgcagaacc cctgtgtatc cctttctcct cctgatatag tttagatatt    960
tatccccacc aaatcttcat gttgaattgt aatcccagtg ttggagatgg ggcctggtgg   1020
gaggagtttt ggtcatgggg gtggacccct catggcttgg tgctgtcctc actgtagtaa   1080
gttctcacaa gatctaattg tttaggtgtg tgccacctac ccctcccac tctctctctc     1140
ttttgctcct gcttttgcta tatgaggtac ctgatcctgc ttcaccgtcc accatgactg   1200
taagcttctt gaggcctccc cagaagccaa gcagatgcca gcnccatgct tgtacagcct   1260
gcagaaccat gaaccaatta aacctctttt ctttataaaa aaaaaaaaa aaaaaaaaa      1320
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaag gcggcc               1367
```

<210> 38
<211> 921
<212> DNA
<213> Homo sapiens

<400> 38
```
ggcacgagga cgatgatgtc atcaaacact tatatagtgc ttgtatgcca ggcactcctc     60
atcacagcta tgaatcgtgg tccaccaaat aagtgcaaca gagtttatct atttttaaat    120
ctttgccatc actactaatg ttgcagcgag tgttttcttg tacatacatc cttgcggaag    180
tgtttgggta tatacctacg gtagagttcc ttggttatgt ggtaccagca tcttcaccta    240
ccaactctgt ccaaatggtt accccaagtg tttgtatgac cctgtcagta tgtgcgaggg    300
gtttttttact ccacatttcc tcccaaactt ttttttttttt ttttgacaga gtctgggctc   360
tgtcgcccag gctagttgca gtggagctgg aatcgcgcca tggcattcca gcttggggca    420
acagagtgag gcttcatccc cctccaagag aaaagccaaa ctaataagat tcaaaatgta    480
aaataataaa ttggtgtttt tttatacttt gcccctatag tagtttcctt gcctcttcca    540
gcttctggtg gctgccccag cattccgagc gtgtggctgc gaaactccag tctcccccac    600
cttcacatca tcttctccat gtctccttac cttcctttgc ctctgtcttg aaaagacact    660
gtgatggcat ttaggaccca cccagctaat tcagtgtgtt ctcatctgca gatccttgat    720
caagtcacat ttgcagagac ctctttttca aataaggtaa catttccaaa ttcctgggat    780
taagacttga tatctttggg tggtcattat ttaacctact acaattgggc ctatccctag    840
gccatgccag cctgggtgat aaagcgagac tctgtctcaa aaaaaaaaa aaaaaaaaaa     900
aaaaaaaaaa aaaaaaaaa a                                           921
```

<210> 39
<211> 632
<212> DNA
<213> Homo sapiens

<400> 39
```
tgacgtccac tgccttgtca ccagcgacct gcctgtcatg cccaccccct gaggaagcat     60
ggggacccta acaccctggt gccctgcacc agacaggccg tggtcaggcc caggccaccg    120
gccgggttct gccacagctt cccacgtgct tgctgacatg cgtgtgcctg tgtgtggtgt    180
ctgttgctgt gtcgtgaaac tgtgaccatc actcagtcca aacaagtgag tggccctcga    240
ggccacagtt atgcaacttt cagtgtgtgt cataacgacg tcactgcttt ttaactcgat    300
aactctttat tttagtaaaa tgcccaggag tcctggaagc tacgcggact tgcagaggtt    360
ttattttttg gccttagaat ctgcagaaat taggaggcac cgagcccagc gcagcagcct    420
cgggacccgg attgcgtttg ccttagcggg atatgtttat acagatgaat ataaatgtt    480
ttttttctttg ggcttttttgc ttctttttttc ccccccttct caccttccct tctccccgac   540
cccacccccc aaaaaagcta cttcttcatt ccgtggtacg attatttttt ttaactaaag    600
gaagataaaa ttctaaaaaa aaaaaaaaaa aa                              632
```

<210> 40
<211> 608
<212> DNA
<213> Homo sapiens

<400> 40

```
ggtgaagtca tcatgagctt tttccaactc ctgatgaaaa ggaaggaact cattcccttg      60
gtggtgttca tgactgtggc ggcgggtgga gcctcatctt tcgctgtgta ttctctttgg     120
aaaaccgatg tgatccttga tcgaaaaaaa aatccagaac cttgggaaac tgtggaccct     180
actgtacctc aaaagcttat aacaatcaac caacaatgga aacccattga agagttgcaa     240
aatgtccaaa gggtgaccaa atgacgagcc ctcgcctctt tcttctgaag agtactctat     300
aaaatctagt ggaaacattt ctggcacaaa mtagattctg gacaccagtg tgcggaaatg     360
cttctgctac attttttaggg tttgtctaca ttttttgggc tctggataag gaattaaagg     420
agtgcagcaa taactgcact gttctaaaag tttgtggctt attttcttgt aaatttgaat     480
attgcatatt gaaattttttg tttatgatct atgaatgttt ttcttaaaat ttacaaagct     540
ttgtaaatta gatttttcttt aataaaatgc catttgtgca agatttctca aaaaaaaaaa     600
aaaaaaaa                                                               608
```

<210> 41
<211> 877
<212> DNA
<213> Homo sapiens

<400> 41

```
ggcacgagaa cttcataaag atgatttttta aaatgcccag ctctgagtgc aggtcctcag      60
ctttactcct gaatgtgagc ctcgctgagt ccgaagccgg tcgcaggcct gggaaaccag     120
ggtgggctga ggaggcaacg ggaggcagaa gggccagcag gaaggatggg acccaaggct     180
aggctggggg gtcagcagca gacatgggtt gaaggggagt gggtcatggg aagggcctgt     240
gcaggatgga gcccagcagg ggatgggaga ggacacaaag ccaggcagaa ggcggtgatg     300
gcagcagaga ggagcaccca ggggccgccg cttggccacg agtgtaggcc acccagggggc     360
cgccgcttgg ccacgagtgt aggcccacgg tgcccttcag cacagtgccc cagggctcgc     420
cagccaccca ggaccgagac tcgtagtgct ggggggctgc agctccttcc catcctttcc     480
tgggctgcct ctagccccca tctctccaaa ttagcagggg agctggagcc cctaagaccc     540
cagcctcaca tcatcctcac gcctctgttg ggagccatgc cctgctgcac ccgaatcttc     600
tgtttctccc tgaccatggg ctcctgaagt tcgaggcctg tggttgttcc tctcttcaac     660
ttggttgctg cggtgagttt ctgggaggtt tgtcttacta gattctgtgc ttccctccac     720
catgggaacc tggaatctct gtttttgcttt ttagcatgca ggtaatttcc agcctttaca     780
tctgcctatc agacaaatcc tatcttcata cctcaggcag tatcacccccc aacgtgtggt     840
ctaaatttgg acttctgtat gcatgaactc acctcga                              877
```

<210> 42
<211> 978
<212> DNA
<213> Homo sapiens

<400> 42

```
acgagccaaa acactccctc cgctcccact tcacttagag tcaaggccaa agtctccact      60
caccatggcc caccgcagtt ggattctcag ctcctccctg ctcccaattc ccatcttttt     120
cctcctccct ccctcctctg cagccaccct agccacacca gggtcctaga atctgttccc     180
tggagatgtc cacgtggctt gctccctctt ctcctccagg tctctgctca gatgccacct     240
cctctgtgtt gaaagattcc tttagtccac ttaattttttc atctcagtgc ctaccatgtc     300
ctggcattct ttattattat tattattatt atttattagc ttgattttct gtggctccca     360
gaacaatgca agttcacgag ggaacaggga ttttttgtctg tcctgtttac agctgcaccc     420
ccagtgccta caagggtgcc tggcccagag taggtgctca ggacaatttg ttcaatgaat     480
aaagaattca accaggtgcg gtggctcaca cctgtaatcc cggcactttg ggatgccaag     540
gtgggtagat cacctgaggt caggatttcg agaccagcct agccaacatg gtgaaccctg     600
tctctactaa aaatacagaa attagctggg catggtggcg tgcacctgta atcccagcta     660
cttgggaggc tgaggcagga gaactgtttg aacctggaag gcgggaggtt gcagtgagcc     720
aagatcgtgc cactgcactc caacctgaat gacagagcaa gactccatct caaaaactat     780
ataataataa taataattca accagatgtg gtggcttatg cctgtaatcc caacactttg     840
ggaggctgag gcaggaggat tgcttgagtc cacgagttca agaccagcct gggcaataaa     900
acaagacctc atctttacaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa     960
aaaaaaaaaa aaaaaaaa                                                    978
```

<210> 43
<211> 999
```

<212> DNA
<213> Homo sapiens

<400> 43

```
gaattcggca cgagcaggag ggcaagtcaa attttatggg cctccaagac tctgcagaag      60
agactcccag gctgaataca agccttaggc cactggaata tgctggtttt cctaccattc     120
accgttttgg tacttatcag ttacattttt tcctcccact ccttcaaccc cttatttact     180
ctatgtgatt ttgagcaagt acttttacat ctaaagatat tttctcatcc ctaaaataag     240
aacaaggtga tagagaatca ctgtaactac aagtccaata gaataaggtt ctatttcaga     300
ttgtctcagc cttaatattt agtctactaa ctgggcaaca tttagattct attccaaatt     360
ccctcaaacc ctttctaaca tcaacagact aattccctta gccccactcc ttcctcatta     420
aaataaaatc actgggctgg gcactatggc tcctgcctgt aaccccagca cttcaggagg     480
ccaaggcagg aggatcactt ggggtaagga gtttgaaatc agcctgggga gcatagtgag     540
accccatctc taaaaaaaaa aaaagaatta accgggtgtg gtggtatgca tctgtagtcc     600
ctggtactgg ggaagctggg gcaggaggat tgcttgagcc taggagtttg aggttgcagt     660
gagctatctt tgttgcagtg agccatgttg ttgcaaataa ccagatctca ttctttttt      720
tatggctgaa tagcactgca ttgtgtatat gtaccacata taccagcctg tgtgacaggg     780
caagacgtgt ttctaaaaaa aaaaattttt tttaaatact ctgcagtatt ttttcaaaat     840
ctacagtcac ttttttcctaa taatcaactt taaaaaatat ttcaaaataa gcttgaattt     900
ggcccttgc tctcacaaca ccaaaacacc attttcccaa ttacagcaca gcaaacacac     960
gacattcatt tctgtcttct gaattttggg ggccccgta                            999
```

<210> 44
<211> 510
<212> DNA
<213> Homo sapiens

<400> 44

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gaattcggca cagtcttcca cacttgcttg tcaaggtgat aaccctgaca tctgtcaagt      60
gtaatcctat tatgaatata gcaagagtta tttactgcca agtaagaaac agattagtta     120
tggccctggt aatttctgcc cctcccccaa acagcccatg taattgcttc ttttttatct     180
ttcttttcat tttgcctctc attttcctc tcttcaaagg cctttttgct actttttgtct     240
ttttctaagt ttttctttat cttgttcttt tctttctgtt gtctcaaatt ctcacatttg     300
gccagtcttt ctcttgtcgt ctcccggggt gtaccttgga cccggaaaca cggagggagc     360
ttggctgagt gggttttcgg tgccgaaacc tcccgagggc ctccttccag tgatctcatt     420
gactgattta gagacggcat ctcgctccgt caccccggca gtggtgccgt cgtaactcac     480
tccctgcagc gtggacgctc ctggactcga                                      510
```

<210> 45
<211> 986
<212> DNA
<213> Homo sapiens

<400> 45

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ggcacgagct taagttgaat tataaaaatg atggatataa gtggtagctg tatctagtga      60
agtgtctgtc agtaagtgaa acatttttg gtggtggctt atccacaaac agtttagttg     120
tagaataaaa cttatgagtg acatctggaa agtaaccatg ctaagatggc aagcacactg     180
gaaacaatta ggccacttgg ctttcttttg ctgtattgtt ttataagcct actttacctc     240
ccagtcttgg aaacaagttt tagtttttta ttggtttgga gactagagcc aatagtataa     300
tgttctcaaa ggaaacagac ttgagttgtt ggattagagg aactaaccca acttatatga     360
ttttttttt gttttgtcg tgtagttatg gcactgtctt atttggaaca tttgcaacta     420
ggggataata caacattttt aactctcatt tgacaaccta ctactaatca cagaccacaa     480
gggtaatgac caaatttatg tgggttttgc acccatagtt gtcctagccc aacttcaaac     540
tcttacgatt acttgggtaa cgctctggag gaccttcctt gagatcccta atatttaaga     600
tatttgatat cttgaagata gtataggata tagagattta ccaaatagga atataaggag     660
tatgttaaaa tgaccagata cctgtttgat agtttactga cctagcagat gtgtggaaaa     720
ggaatcagat cttgattctt ctgggtttat actggttgta aaacagaatg atacagaaaa     780
tgttttcctt gttttaactgg tagttgaaca tagaacttgg gtattataga tcactttttca     840
cttttttggaa tgttttgtat tgaaacttaa taaaactttta acatggcaaa aaaaaaaaaa     900
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa     960
aaaaaaaaaa aaaaaaaaaa aaaaaa                                          986
```

20

<210> 46
<211> 747
<212> DNA
<213> Homo sapiens

<400> 46
catactttc aacattccct tctgtccttt ctttgttttt aaagaaagct ctgattttgt   60
ttcattttca gctggagact taaatgacac caagcaaagc ctacttagtt tagatctcca   120
gaaattggct ggtggaaaaa aatcaaacat gaagattgca gttttgtttt gttttttct   180
gcttatcatt tttcaaactg actttggaaa aaatgaagaa attcctagga agcaaaggag   240
gaagatctac cacagaaggt tgaggaaaag ttcaacctca cacaagcaca gatcaaacag   300
acagcttgga attcmgcaaa caacagtttt tacaccagta gcaagacttc ctattgttaa   360
ctttgattat agcatggagg aaaagtttga atccttttca agttttcctg gagtagaatc   420
aagttataat gtgttaccag gaaagaaggg acactgtttg gtaaagggca taaccatgta   480
caacaaagct gtgtggtcgc ctgagccctg cactacctgc ctctgctcag atggaagagt   540
tctttgtgat gaaaccatgt gccatcccca gaggtgcccc caaacagtta tacctgaagg   600
ggaatgctgc ccggtctgtc cgctactggt acagagcttt agctaagcaa aatatcagtg   660
tgtgattaat ctttaacttc catttgtttt tgttactaat tttagattaa aattatgata   720
cattaaaaaa aaaaaaaaaa aactcga   747

<210> 47
<211> 340
<212> DNA
<213> Homo sapiens

<400> 47
acgagcagca gccctggcat gttcctgccc cacaggaata gaatggaggg agctccagaa   60
actttccatc ccaaaggcag tctccgtggt tgaagcagac tggattttg ctctgcccct   120
gaccccttgt ccctctttga gggaggggag ctatgctagg actccaacct cagggactcg   180
ggtggcctgc gctacttctt ttgatactga aaactttaa ggtgggaggg tggcaaggga   240
tgtgcttaat aaatcaattc caagcctcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa   300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa   340

<210> 48
<211> 567
<212> DNA
<213> Homo sapiens

<400> 48
ggcacgagag catttcctac ctagtgaaga aggggacagc cactgagtcc agcagagaga   60
tcccaatgtc cacactccct cgaaggaaca tggaatccat tgggctgggt atggcccgca   120
cagggggcat ggtggtcatc acggtgctgc tctctgtcgc ccatgttcct gctggtgctg   180
ggcttcatca ttgccctggc actgggctcc cgcaagtaag gaggtctgcc cggagcagca   240
gcttctccag gaagcccagg gcaccatcca gctccccagc ccacctgctc ccaggcccca   300
ggcctgtggc tcccttggtg ccctcgctcc tcctctgccc tcctctcccc tagagccctc   360
tcctccctct gtccctctcc ttgcccccag tgcctcacct tccaacactc cattattcct   420
ctcaccccac tcctgtcaga gttgactttc ctcccatttt accactttaa acaccccat   480
aacaattccc ccatccttca gtgaactaag tccctataat aaaggctgag cctgcatctg   540
ccaaaaaaaa aaaaaaaaaa aaaaaaa   567

<210> 49
<211> 1357
<212> DNA
<213> Homo sapiens

<400> 49
agtaggatcc agtctgtggg gctcatttga gggagaatga gcacggggct tttggaggct   60
gcagcctagg gccaagggat ggaggctcac ctgagtgcag gttaggcagg tgaagtgtct   120
ccccggaaac caagctagag tgccccacct gctcggccct gccttctcgg atcggatcca   180
gcacatccag gcttctcctc ctcccgagga accagtggtg acagctgagg ccatgtgagt   240

21

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aggatcctga atgaggcttt atctctggct gttcgtccca tcgtccaccg tggcaccagc    300
tccctcagcc agccgggatg ggaccagcga ctgagagagc cagaggcaga gaggtgaggg    360
tgaccatatc ctggactgtg agaggaatgg gactctgggc ctgtagctgc caagcaggtg    420
gcaggtgctc caggctgtga tctgcaccct ctgacccctg acattgacct cctaccctga    480
cccctgcctg accaagccat gtctgaacag gaggctcaag cccagggggg ccggggggctg    540
ccccggacca tgctggcaga gcaggtggag ctgtggtggt cccagcagcc gcggcgctcg    600
gcgctctgct tcgtcgtggc cgtgggcctc gtggcaggct gtggcgcggg cggcgtkgca    660
ctgctgtyaa ccamcagcaa gccgctcarg tgaatggcgg ctaagcaamg ggcactgtgc    720
tctgtttgct ggctctsctg gttctggtga acagctgatg agctcggctg tcaggacatg    780
aactgcatcc gccaggccca ccatgtggcc ctgctgcgca gtggtggagg ggccgacgcc    840
ctcgtggtgc tgctcagtgg cctcgtgctg ctggtcaccg gcctgaccct ggccgggctg    900
gccgmcgccc ctgcccctgc tcggccgctg gcckccatgc tgtctgtggg cattgctctg    960
gctgccttgg gctcgctttt gctgctgggc ctgctgctgt atcaagtggg tgtgagcgtc   1020
cactgcccct ccatctgtat ggccactccc tccacccaca gtggycatgg cggccatggc   1080
agcatcttca gcatctcagg acagttgtct gctggccgtg gtcacgagac cacatccagc   1140
attgccagsc tcatctgacg gagccagagc cgtccttctt ctcacagcgg cctcagcgtc   1200
cccaragccg agccagggtg tgagtgcatg tgaacgttga gtacacatga gtgcgtgtat   1260
gcccccaggc tgggtcagct cttctgtgga ttgcatggcg tgtgattaaa agtcccatgt   1320
gttcccacac atccaaaaaa aaaaaaaaa aactcga                              1357
```

<210> 50
<211> 1075
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (79)..(79)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (604)..(604)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (656)..(656)
<223> n equals a,t,g, or c

<400> 50
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gtgtcgcagc tctcttcgac gtacctgtcc tcaggagccg cggcggcgac tgcgcctcgg     60
acggccgtcg gggccgagna accatgagcc ccaggggcac gggctgctcc gccgggctgc    120
tgatgactgt cggctggctg cttctggcgg gcctccagtc cgcgcgcggg accaacgtca    180
ccgctgccgt ccaggatgcc ggcctggccc acgaaggcga gggcgaggag gagaccgaaa    240
acaacgacag cgagaccgcg gagaactacg ctccgcctga aaccgaggat gtttcaaata    300
ggaatgtcgt caaagaagta gaattcggaa tgtgcaccgt tacatgtggt attggtgtta    360
gagaagttat attaacaaat ggatgccctg gtggtgaatm caagtgtgtt gtacgggtar    420
aagaatgccg tggaccaaca gattgtggct ggggtaaacc aatttcagaa agtcttgaaa    480
gtgttagatt ggcatgtatt cacacatctc ccttaatcgt ttcaatatat gtggaactty    540
taagacagac cacaatccat tatacttgta aatgattcag caatcctaga agtacgcaag    600
gaangtcacc ccttgctttc gagtgtgaca cactggataa taatgaaata gtagcnacta    660
ttaaattcac agtctatacg agcagtgaat tgcagatgag aagatcaagc ctaccagcca    720
ctgatgcagc cctaattttt gtgctgacca taggagtcat tatctgtgta tttataattt    780
tcttattgat cttcataatc ataaattggg cagcagtcaa ggctttctgg ggggcaaaag    840
cctctacacc tgaggtacaa tccgagcaga gttctgtgag atacaaagat tcaacttctc    900
ttgaccaatt accaacagaa atgcctggtg aagatgatgc tttaagtgaa tggaatgaat    960
gatgtttgaa tgatatataa caaaccaaag gatattacag aatattagat tcattattac   1020
aaaaataaaa tacacattga aatactttaa aaaaaaaaa aaaaaaaaa ctcga          1075
```

<210> 51

<211> 1025
<212> DNA
<213> Homo sapiens

<400> 51

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ggcacgaggc cggaaagcag aaggttgcag tgaagctgag atggcgctac tgcagtccag    60
cctgggcgac agggcaagac tccacctcaa aaaaatatat aaaataaagt gggattcatc   120
caagagcttg gacatgatta actagtgtca aggagatatg tttatgccat tattatcctc   180
cttacttggt agggtacaac agaaacagaa caacaaggtg acagcctttt gctcaagtca   240
aaaagaaaat aagtccctca tcttaggttt aaagttgttc attcaggtag tacagacttg   300
catttggaag acttattctt gatcctctgt agctttgaca gcaaggacat cactacaatg   360
ggtacagaaa taacacattc tgatccttgc tgagatcctt gtatgggcct atcttaaatc   420
tagcctattg tctgtcttac cctttgattt ttataagtgg aaaacaggaa aaggctaacc   480
aagcaagagg aaggcataga ttcatcttcc tttcaatctt gactatagtt taaagagaat   540
accatgatct ttctgttcta ttcttggctt acttgaatat ttagccaggt ctctgcatct   600
tattcagtca gaaaacagac acagattcag ataactcaaa ggatgttact tgcttgagta   660
atccttgggc ctcgctttaa ctttgtagat ccaggaacag aattaagcag acagttcggt   720
ctacactgcc aaatttctta gggaaaaaga gggcaagtca gaaggaggaa gttggcattt   780
ggctcaaatg accaaattat ttaaggtctc tacacttcac tttgcaccaa gtagacccaa   840
gaatgattat aattcagcta cgtgtggtgg tgcagatcag tagtcctagc tattcaggag   900
gctgaggcgg gtggattggt tgagcccggg agtttgaggc tgcaatgggc tatgatctcg   960
ctgcgcttta gcctgggcaa cagaacaaga ccctgtctca aattaaaaaa aaaaaaaaaa  1020
aaaaa                                                              1025
```

<210> 52
<211> 908
<212> DNA
<213> Homo sapiens

<400> 52

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ggcagagaaa tatgccaggt agacaccagc ccaagtaccc tcctccagaa gtctgtgact    60
accttgtcac tactttaggc ccattccaca aagcccatct ctggtttgag aattcatttt   120
gatctgtatc tacaccaccc aaagttaggc ctcctataat gtccaaaaca ttcctttcag   180
ccttttatt tcttactgta ctgtctctta ctgtactgtc tatctgcagt aattgaggac   240
ccataaaatt tagataacta catgtctttc tcttagaatt gtcactcagc ataatgagca   300
tttaacatac aaaggcaatg tactgttttg tgttgatcta tgtaaaagaa tacaattctt   360
ttttacataa ttagtgaaat tttatttttt attaggaaac actaaatagt gtaatatttc   420
tttgctttta aaaaaattcc tggtagcaaa tcaagattaa ataatkgctt cattttcttg   480
agcaatactg aagcaggatg aagtaagagg aatgccattc atttaaacat gctttgcttt   540
atgaattttg tctcttttt ggtctctttt tcttatattc aagttacaaa tgtacaagta   600
tccttactaa gagtgctcct tttgtatttt acatatatac agtatgaaaa tacattggaa   660
cactaggaaa gtttttaaat aacagttcta atttatcaga aaattgtgtt ttgggattga   720
gttctttgtc tcagcccaga atcccaggtc ctgggcctgg ttttctaatg ctgtcatctc   780
agttcgatat tttactttag aacctggaat ctcctactta atatatgacc atgactttga   840
aaggcaaaag aggaatcaag aataaataaa acaaacttaa tcttcatctt taaaaaaaaa   900
aaaaaaaa                                                            908
```

<210> 53
<211> 1255
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1236)..(1237)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1255)..(1255)
<223> n equals a,t,g, or c

23

<400> 53

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gaattcggca cgagaactct tggcttccag gttctagcac tcattactac catggacagc      60
agcttccttt taattcagtg ggattctgcc aggcaggctt ccaggggagc tgtggggtct     120
agtacaagtt tctcccctgt tgctgcttca gtggctttca ccctgcccaa tacatattta     180
atatgacacc atgtgtctct ttgtcagtct cctcatattg agcctaggaa ttggcaaaca     240
ctccatgaat atttacacat tgactttttt ttaagctctt aagagaggaa tatcccttgg     300
agtcctcttt ggagatttcc agtgtctcat catcaagcaa tatgtccttt cagctaataa     360
gatctttatg tttcataatc attgcttaat atccaaagat taaatttaga ccatggaaag     420
gaaaaaagat ctcaaagcaa ctcatgtccc taaaaggaaa tcacactcat caaacaaata     480
cgctgtgttc acacaaagat attactattt tctaccttca gtactggcag actttaagtg     540
ggatatgaaa agcctcagct gcttttgaat gtgggtactt taccctggta aacatagatt     600
ccactcttca gcttggccaa tgtttataat actcagccct gcagaaaagc gtcctacttg     660
gctctcttat cctccattgg cttagacagg aattggggaa atacgcatgt cagtattagc     720
aaaatcagca gcaaagggac agargcatat gaaagtcacc tcmcaaaggc aatgcatatt     780
aaccctatcc ttggaraaat atgtgcttcc ytccagaaga aggaatattc actccagtgt     840
aaamccactt aaattatctt ttccattatc ttgtttaata atcaaaattc ttagaggctg     900
atagggttac acccatttat aggcaaagaa atggaaaccc agagagataa aatgactttc     960
ccaaattctc ttagcaaaat ggagatagaa tcaaaactga atcccaatct ctggtcccca    1020
ttttgttaca atcacagtat ttttcacaat attatctcaa actttaccca tcgcgatgag    1080
gttcctggtc tcgcagctct ctcacagatg attttaagcc agggaaactg ctattttta     1140
atgcttattg ttttctttgt ttaatatgta ttcattgtag agatttgggg aaaataaaat    1200
gaccaaaaat cttaaaaaaa aaaaaaaaaa actcgnnggg gggcccgtac ccaan          1255
```

<210> 54
<211> 1142
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (92)..(92)
<223> n equals a,t,g, or c

<400> 54

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aattcggcag agctgcctgg aagttccagc tccgagttcc ctgggaggac tttttcagat      60
gttagggacc cgctccagag ccccctctgg tncaccctgg gttcctccag ccccaccgag     120
tcactcactg tgggaccctg cctctgaata atcaggaacg gtggcttcag agacgtctct     180
tgggccttcc ctctggccac gtctgcaccc acccctsctg ggcaccctcc tagcctgcca     240
tccctcacct gcagccaggc tctcagggaa ggtccatgct gcttggcctg agttcaaggc     300
tttctgcctg tagcctggac tcccgtggac ccccgtgggc aggtggcttc cccgtggcat     360
ctccacaccg cctctgcctg cccctgtgga ctgatgctat cgcgcaccgt cccacgaccc     420
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ctctcctgag agcagtggtc acagcggccg gccgttctgc tgagaaggca gagaggcagg     540
ctcaggcctc agcgtggaca gcagggataa ggggcacgaa ggacggggac tcggcccctt     600
cagaattcct caggactctc aggtgcagct ttgccaaaaa ggaacttttc atgtcatgca     660
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tgggcagcct ctgctacagc gtggagtggg atggctctct tccctcagcc acgccgcttg     780
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agggcgcgac cccagcgctc tccacggacc agccagaggg actggagcca ggtgtgcatg     900
ggttcaaggc cctggccctg cccagcctct gtyttgggag ctcagcccca gggttcggtc     960
gtcagcagtt tcccaagaac aagatgtgat ggcatctgct gctgaaaccc tgatgaggac    1020
caggcccccct gcaccgctgt cagcctgagg aattaaagct ttggtgctgg gaaraaaaaa    1080
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaac    1140
tc                                                                   1142
```

<210> 55
<211> 1923
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (144)..(144)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1910)..(1910)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1912)..(1912)
<223> n equals a,t,g, or c

<400> 55

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aattcggcac agccttatgc cacagtagtg cctgtagcag agaaaggatt ccctcctcca      60
cctcagggcc cactgctgct gctctccagc ctgcagtttc ctctaaggct ctggattggc     120
tggaagagca acagagggct gggnaaagag cttctatata tacctcagga ggaaaggcat     180
cccagacagt tttgaagttt tcaaagactg gctctgctgt taagaagttg tacttaaagc     240
ggaggagcta agccacctgc caaaatgtgc aaaggacttg cagctttgcc ccactcatgc     300
ctggaaaggg ccaaggagat taagatcaag ttgggaattc tcctccagaa gccagactca     360
gttggtgacc ttgtcattcc gtacaatgag aagccagaga aaccagccaa gacccagaaa     420
acctcgctgg acgaggccct gcagtggcgt gattccctgg acaaactcct gcagaacaac     480
tatggacttg ccagtttcaa aagtttcctg aagtctgaat tcagtgagga aaaccttgag     540
ttctggattg cctgtgagga ttacaagaag atcaagtccc ctgccaagat ggctgagaag     600
gcaaagcaaa tttatgaaga attcattcaa acggaggctc ctaaagaggt gaatattgac     660
cacttcacta aggacatcac aatgaagaac ctggtggaac cttccctgag cagctttgac     720
atggcccaga aaagaatcca tgccctgatg gaaaaggatt ctctgcctcg ctttgtgcgc     780
tctgagtttt atcaggagtt aatcaagtag taatttagcc aggctatgaa atcatcctgt     840
gagttatttc ctccataata accctgcatt tcccattaat ctacatatct tcccacagca     900
gctttgctca gtgatcccca catgggaaaa atcccagggg atgttgctta ctcttttttgc     960
ccacactgct ttggatactt atctactgtc cgaagccttc tttccccact caattcttcc    1020
tgccctgtta ttaattaaga tatcttcagc ttgtagtcag acacaatcag aatcacagaa    1080
aaatcctgcc taaggcaaag aaatataaga caagactatg atatcaatga atgtgggtta    1140
agtaatagat ttccagctaa attggtctaa aaaagaatat taagtgtgga cagacctatt    1200
tcaaaggagc ttaattgatc tcacttgttt tagttctgat ccaggagat cacccctcta    1260
attatttctg aacttggtta ataaaagttt ataagatttt tatgaagcag ccactgtatg    1320
atattttaag caaatatgtt atttaaaata ttgatccttc ccttggacca ccttcatgtt    1380
agttgggtat tataaataag agatacaacc atgaatatat tatgtttata caaaatcaat    1440
ctgaacacaa ttcataaaga tttctctttt ataccttcct cactggcccc ctccacctgc    1500
ccatagtcac caaattctgt tttaaatcaa tgacctaaga tcaacaatga agtattttat    1560
aaatgtattt atgctgctag actgtgggtc aaatgtttcc attttcaaat tatttagaat    1620
tcttatgagt ttaaaatttg taaatttcta aatccaatca tgtaaaatga aactgttgct    1680
ccattggagt agtctcccac ctaaatatca agatggctat atgctaaaaa gagaaaatat    1740
ggtcaagtct aaaatggcta attgtcctat gatgctatta tcatagacta atgacattta    1800
tcttcaaaac accaaattgt ctttagaaaa attaatgtga ttacaggtag aggccttcta    1860
ggtgagacac ttttaaggta cactgcattt tgcaaaaaaa aaaaaaaaan gnaaattttt    1920
tgg                                                                  1923
```

<210> 56
<211> 1228
<212> DNA
<213> Homo sapiens

<400> 56

```
gaattcggca cgagccattt tggtgtggga gtgggaggag ctgtgaatta tgacagttct      60
aattaatata attttgtctt tagtaaaaac aggccctgga cagcacttaa accacagtga     120
attggcaatt ctactaaacc tactacaatc taaaacaagt gttaatatgg ctgattttgt     180
ccaagtgttg aacattaagg taaactctga gactcaacag cagctaaata aaataaacct     240
tcctgctgga atttttggcaa caggtgaaaa acagacagat ccatcaacac cacaacagga     300
```

25

```
gtcttcgaaa ccgttgggag gaattcagcc ttcttctcag accatccagc ctaaagtgga      360
gactgatgct gcccaggcgg ctgtgcagag tgcatttgca gttctgttga ctcagttaat      420
aaaggctcag cagtcaaagc agaaagatgt gctactagaa gagagggaaa atggatcggg      480
acatgaagcg tcattacaac tcaggccact ccagaaccta gcactccggt gtcgggtaag      540
tgtgcagata ccagaccact aacacagctg cattacatkg tctactcagt gttgctgact      600
atatataatg tgtatagttc agtgacattg ccaaaagatg tcctgaagaa tctcaggtaa      660
ctggcaatag gttggttttt cagtctgttt acttccagga atggattctt taacaaatta      720
tccatgtgag atagaactca ttrtgaatga taaagatatt tctaaggtaa acctatggtt      780
aagaaataat atttaactcc aaatacgaaa ggatgcttga ctaaggcata atttatgtac      840
acagtagctt ttgttcctca agcaatgaag tatacgtgaa ttctgcacct agccgtaatt      900
agctttaaaa agccaattac ggctgggtgc agtggctcac acctgtaatc ccagcacttt      960
gagaagctga agtgggaaga ttgcctgaac ccaggaattc agtacctatc tgtgcaacat     1020
agtgagaccc tgtctctaaa acaatttttt ttaattaact gggcatggta gcacatgcct     1080
gtgattccag ctacttggaa ggctgaggtg ggtggatcac ttgagcccag gaggtcaagg     1140
ctgcagtgag ctgtgatcac tccactgcac tccagtctgg gtgacagagt gagaccgtgt     1200
caccaaaaaa aaaaaaaaaa aactcgta                                       1228
```

<210> 57
<211> 1038
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)..(2)
<223> n equals a,t,g, or c

<400> 57
```
gnaattcggc acgagttaat gtataaaata tttctataat gaattttaat gggaattaga       60
gcatcataga aaaaatgctc ttactgttga aaacattatt tgttacattt tggtcaacta      120
atctttcaat aacttttagt aactataatg ttaagttgta ccagtggcag tcttatatag      180
taaatggcag ctgacagcat gaaaataaca tatctaatat tttgtgacta tcttattagg      240
aaaatcagag aatttcaaaa ccttgttagt ttttagggta tagtcacatt ttataaatgt      300
gcggtatatt tatacatgat ttgacgtttg tgwaaatatt ttccctggac ttttatttta      360
gatgagatct acagtgtagg caaacttata taatctgtca actccattag tgtcatagtc      420
agactcatcc ccatgctaaa attatagttg tkaaaatacg ctttttgtaaa tagttgtgtt      480
aggtcattat caccaagtct tcaaggkatt acattataaa aaccttggkt tttattcttg      540
tgaatamccg ttttttccat gcaaagttaa aattcttcag cctttaattt ttttattaat      600
atataaggat gtgatgagta tgactacaaa acaggaaaaa ataaacagat ttcgtttgtg      660
gcttttgcta aattgttacc tgacaaaatc ttagccagtt cttcattttc gttttgagat      720
gaagatactt agttttagtc caggggctgg gcgcgatagc tgatgcctgt ggtcccagtg      780
ctttgcgggg ccgaggcagg tggatcactt aaggtcagga gtttgagacc agcctgccca      840
acatggtgaa acgttgtctc tactaaaaat acaaaaatta gacaggcgtg gtggcacaca      900
tctgtaattc cagctactca ggaggctaac acaggaaaat tccttgaacc tgggaggcag      960
aggttgcagt gagccattgc actccagcct gggcaacaca gtgagactct tgtctcaaaa     1020
aaaaaaaaaa aaactcga                                                 1038
```

<210> 58
<211> 990
<212> DNA
<213> Homo sapiens

<400> 58
```
gaattcggca cgagaatttt gaaagaagtt ctactgtgga taaaaagcta tgaaacagca       60
tcacatacta cagagaaacc ttttgggaaa ggaagagcca atagatatgg caaacatcat      120
tgttgtctta ttttcagaaa ttgccgcagc taccccagcc ttcagcagca accaccctga      180
tccgtcagca gccagcaaca taaaagcaag gttctctacc agccaaaaga agaaaactct      240
ctgaaggctc aggtgtttta taaaattttt ttagcaataa aatattttt aaagtatgta      300
tattttttag atgtaatgct actgcatagt taatcagcya tattatagtg aaaatagaac      360
ttttgtatgt actgggagac caaaacattc atgtgaataa ctttttttgca atttttaact      420
tatttcagtg atctgggccc aaacctgaaa tatccgagcg gtatatttct ctctggcccc      480
```

26

```
aagttttgtg atattgttgt cctacatttt awttgtacat atgktataaa ctccacactg    540
tacttcygtk atttcattta agctgtcagt tatcttttta gagatttaga taaacagaga    600
catgttttta ttctttccat tgctgcttat tcctctgcgt aggttcatat ttcagkcctt    660
ttacttcaag agctctaaaa aaaatgtctt atagtgcagc tctattggta atcgattcct    720
ttagcttttg gatgtttaaa aagtgctttc tttaccttgc cttaattttt gaatgatatt    780
ttgctgagta atattctgag ttggtgattt tctctgacac tgcttttttt tttttttttt    840
ttttttttttg tcatttgaca cagaatcttr cagtgagttg agatcgtgcc actgaactcc    900
agcttggggg acagagcaag actccatctc aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa    960
aaaaaaaaaa aaaaaaaaaa aaaaactcga                                     990
```

<210> 59
<211> 1767
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (26)..(26)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (68)..(68)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (80)..(80)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (107)..(107)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1762)..(1762)
<223> n equals a,t,g, or c

<400> 59
```
aagaaaaaaa taggcctggt tgccanatta aggtcccctg ggctatttta aaccggattt     60
ggataccnag gtctttccan aggccgtatt ttgccccccg taacccntaa aaaaaaaaaa    120
agatttccaa aatgccgttt tcagaacctg ggttttaata gcagtattga atttgtaagc    180
ttagtagttg cagaaattga acactaggtg gcactcagtt atcttaacag gggaagtact    240
gatacaattg ttgacttttc ttttactatg tgtaagaaat accccaaaca tgaaaagatt    300
gttttgatca tatgcatgta tgtagaatat ttttgcagag cagaaagatt atgttagaag    360
tgtgattttt attttcagaa gtcatataca tgtaagctac aattttgagt gctttataaa    420
cacttaagat atatatataa attttaattt catagcaact tgtaaaaaat aaaatacttg    480
ttgaaaagcc tttttcaaca tatccctaag ctaagggaag aggaaggaat aacaactcag    540
tgaaaagatg gtctccagtt tctgaatgaa aaagctacag ctgagaaata aaataaaatg    600
tcatgctgca gaatatgtta tacccttatt ttgtgttaag gatatatttt attatgtgaa    660
tggttttgtt tttgtttttt gttttttgttt tttgcttgta ttgggaatta gctttactgg    720
taacttcctt atttagtttt tagtggtcaa ctctaataaa atgaaactag ggctgagcta    780
gttagccctc actagccaaa ctgaaactct atgcaacatt aaaagaagag atccatcatg    840
tagcttgtga cactttttatt ttattagtca ccggggaact tttcagtgat gaaaatacac    900
agggtaataa accttcacat ggcttcaaaa ggaaacaag caaatcttct ctaatctact    960
cttactataa tttcctaagt gtacaccaaa ctctggattt aaaaatctga agtactatag   1020
aacattaagt tgaagaatgg aaattaagag tacgtattca tggtttatat ttcttattct   1080
atggagttcg tgaacacatc taggtggaat gcatctgaga ctaagggctg gtttttaatc   1140
ctcataagaa accagccttg aagaattaac aattctcttc attggtattc taaacctcct   1200
```

27

```
aagatattta ggcttctgta cataaaagtg tttttgctaa atttacagta tatatagatc    1260
ctttcatatt attttactaa gaatgtttga actttgcata tttgatatag ttcctggtag    1320
gaatagcaca gctcaaacat tagttttct acttacctcc tctaacacgt ggtttgtctg    1380
gagagtttct aaaaattcag ctataacccc agttcatgta tttactggtg attgttcttg    1440
ctgaggtagt aacagcccaa tcttgggctg ttaaatccta ggaaatctcg aatcatagtg    1500
attaaaatag ttggggtaaa gttgtagctt atatgcaata ctacttggag gaattcttct    1560
actaatttgt atttaatgtg gaaattgtat agtttcattg atttaatcat aaataatgga    1620
aatggtctcc aagaagtttt atttttcatt tttttgctta tacactctga ttcctataat    1680
acagtgctat aagctatgca cagaaaataa aatgtttgaa atccaaaaaa aaaaaaaaaa    1740
aaaaaaaaaa aaaaaaaaaa angggggg                                      1767
```

```
<210> 60
<211> 1625
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1336)..(1336)
<223> n equals a,t,g, or c

<400> 60
gaattcggca cgagaatcta ccagccatga gtgaagtcta cccttggaag actgattgtg     60
ctcagttcgg ctctaaataa aatctttcca ttaactctgg cttccagtgt tttgtactct    120
gggagaacca gtcctccaag ggagagtttt gtcagccagc tgaattgctg cttcagtgac    180
aaaatggaat tcactcaaat tgttctgagc tttaggacaa aagaaatgcc tgtcatcttc    240
ctgatagtga acttagcaaa gcaccgttta aaagaatggc tctcatcact cccgagtacc    300
ttgtcattac tgctcatctg tgctaagtgc cactgtctac ttctgatccc caaaacagtg    360
gsctctagcc tttgccttct gcctaactcc aagtagagtg ttcttttat aatccttcat    420
gttcatataa cactttagca tttacagagt gttttcacat gcttatttgt gaggtattat    480
cacagtgcta raaataagga aaggctgaga cctaccaaaa tgacagtgtt gtacgtgagc    540
aggctgagcc ttgaaagcag gacctctgtc tcccacatta gcgcttcatt ccatcacacc    600
tctgcaagga caggtagcct gctggggggc catggtggca ctggggtata aaatctctaa    660
actgctaata tcctctttc cttctaggct gagaacatct ctaaggamct ctacatagaa    720
rtatatccag ggamctattc tgtcactgtg ggctcaaatg acttaaccaa gaaamtcatg    780
tggtagcagt tgattctgga caaagcgtgg amctggtcyt ccctgtgtga tgttgaccat    840
cactgccatc acatcacctt tttttaagta gtaagaataa agccactgta tgattctctt    900
aatagctata cattaatcct gttttagtg ctgactgggt cagccttccg ggaactggag    960
tctgtctctt tcagtgcttt tttgtttgtt tggttggttg tttttgaga cagcctgggc   1020
gacagagcca gactgtctca aataaataaa tatgagataa tgcagtcggg agaagggagg   1080
gagagaattt tattaaatgt gacgaactgc cccccccccc cccccagcag gagagcagca   1140
aaatttatgc aaatctttga cggggttttc cttgtcctgc caggattaaa agccatgagt   1200
ttcttgtcac atgcctttct atgccttcca tggctgggtc tcagggagcc ggaagcagct   1260
gctgaggagg gatgaaaatg tcagtgtgtg acgatgcctc atgggttcac cccccaaagc   1320
ctgggcacag ctggtnttgg gtctgccgtg cctcccttcc ttcctcctct tggggccact   1380
ggctgctcca gttccccatc cgtggcaagc cggtagagcc attcatcccc gcagccttyt   1440
tcctgaccct cgtacagttt caaatgcagc agacagccaa agcaatgagt ggggggctgt   1500
ggaacttcat ttcccaaagg cagcgccagt ggctcctgag caatgagaat gtcctgtcct   1560
gtccaccata ttcaaggcca gcagaagagc ccgattaaac cctcgcagca cctggcctcg   1620
tgccc                                                              1625
```

```
<210> 61
<211> 1588
<212> DNA
<213> Homo sapiens

<400> 61
actggaagat gtagagtggg aggactggga gtgagggagc cagagggagc agctcccca     60
cccatggcat ctctcgcctc cctcgctcgt ctcagcccag ccctggaaga ctgagaatgt    120
tcccccaaat ctcctctgcc aaccagagct ctgggcacag attctggtgg ctccctgctg    180
gccctcttgg gcytctgctc acacctggga aggggctctc taaatcccgg ccagaaactc    240
```

28

```
tgacttgtgc caacaatagg atgacccaag ggagaggaaa cctatcctcc tcaccagaag    300
agcctgtgtt tttctgctga acacccactg ttcctgagga ctcctgctgg gaagtcccaa    360
gggatagttc tagcccttct gcctgtgtag acagaagcta aaccaccagt ctctctcgga    420
ggaagctgag acaacatact ctgtccatac ataagcaggc agggagggcc atgccaccta    480
cccttggcta aacagggaca gtgaacacat tttggttcct atcccagtgg gtaagaggca    540
cttatctctg ggaaatttgc ctctcttggg actctccccc tcccaggcat tttccattcc    600
tggaaaggct cctttggggt tcagaatcca gagaccaaac cctgacccac ctccttcctt    660
tcctccagcc cacgctggtc tgtccccatg ccttcccagg gcttcttcat gtcagatgca    720
cccaagtcct tagcccagct gtgccacctg caggagttcg ctcttgcgtt tcttcccctc    780
cccaagaagg gaggggggcta cttcaggccc ttctgtgtgt tgcctggcag gataccttgt    840
ccaaccagct acccacctca actcccctgt agtttaggac acaaaacagc taccagcggt    900
acagagcggt gatcaaagcc gagtacttac aactctggta agcctagctt ctccgcctca    960
gcccttctgc ttctggaagg gctatcctgg gggtgaactt gaaactctca tcaggcttct   1020
gcaaaagctc ttcttcctga agacagaccc agcctttgtg ctctcaccct ccactctggt   1080
aaagctgcac ctctggggga atgaggggct gcaggaatct ctggagagcc tggtgcttca   1140
cgatgctgct ctggtgattc ttgtacctaa tctggtgtgc tcaccaatga gtgaaaggga   1200
tcgtgggtca gggacaccga gagagtgagg tcacttccac ttcaaacctt cagtgagggg   1260
gtgggatgga gagaatgctg aatctttttt ttgacgggat ggggttttttc tctttgtaat   1320
tatttcttta gtttaattaa ccttttggtt gtttgtgcaa tattatatat tttaaattat   1380
aatgcatctc cccagagtat tttgtagctg ggaaaagaaa aaggaaaaa aagaaaaaaa   1440
gattctaaca gctgttagtt ttataattaa aaaagaaaga aaaaagaact ttgtcctgaa   1500
cctttttacag acttgccgtt aacagcatta aagtgattca cccgaagctg aaaaaaaaaa   1560
aaaaaaaaaa aaaaaaaaaa aaactcga                                      1588
```

<210> 62
<211> 536
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (508)..(508)
<223> n equals a,t,g, or c

<400> 62
```
ggtcgaccca cgcgtccgcc cacgcgtccg gcttccttaa tgtaatttaa accctggcaa     60
acattcttta gaaaccaaga ggaaagaaag aacaaatatc aaaaaagaca tagaatttaa    120
tattgataca atttcacctc taaaatggat ttgaagaaat gcaactttat atcaaaaaat    180
gtcatctgat ttcctttgtt tctttttttaa attatgtaat cagatgattt tatgtttttt    240
tttcaggggga gcggaatatt ggtttctttt acttgttgtt ttcagttttc tctgccattc    300
atgtttcttt tttgtgttca gtgtttcaaa tacaatttgt atttaaggat tttaaaatac    360
caaactgtaa ctgagtacag tggatcgttt tctgttagga tgttaatatt atacaatgaa    420
atctataaag tgttgtcaat ttgattattg acacatataa catgtttaca aataaactgt    480
ggtattgatc aaaaaaaaaa aaaaaaance cgggggggggc cccggaaccc aatccc       536
```

<210> 63
<211> 660
<212> DNA
<213> Homo sapiens

<400> 63
```
gcacgagacc aagcaaagcc tacttagttt agatctccag aaattggctg gtggaaaaaa     60
atcaaacatg aagattgcag ttttgttttg ttttttttctg cttatcattt ttcaaactga    120
ctttggaaaa aatgaagaaa ttcctaggaa gcaaggagg aagatctacc acagaaggtt    180
gaggaaaaagt tcaacctcac acaagcacag atcaaacaga cagcttggaa ttccgcaaac    240
aacagttttt acaccagtag caagacttcc tattgttaac tttgattata gcatggagga    300
aaagtttgaa tcctttcaag ttttcctgga gtagaatcaa gttataatgt gttaccagga    360
aagaagggac actgtttggt aaagggcata accatgtaca acaaagctgt gtggtcgcct    420
gagccctgca ctacctgcct ctgctcagat ggaagagttc tttgtgatga aaccatgtgc    480
catccccaga ggtgcccca aacagttata cctgaagggg aatgctgccc ggtctgtccg    540
ctactggtac agagctttag ctaagcaaaa tatcagtgtg tgattaatct ttaacttcca    600
```

29

```
tttgtttttg ttactaattt tagattaaaa ttatgataca ttaaaaaaaa aaaaaaaaaa     660
```

<210> 64
<211> 1038
<212> DNA
<213> Homo sapiens

<400> 64
```
ggcacgaggc gcctcggacg gccgtcgggg ccgagaaacc atgagcccca ggggcacggg      60
ctgctccgcc gggctgctga tgactgtcgg ctggctgctt ctggcgggcc tccagtccgc     120
gcgcgggacc aacgtcaccg ctgccgtcca ggatgccggc ctggcccacg aaggcgaggg     180
cgaggaggag accgaaaaca acgacagcga gaccgcggag aactacgctc cgtctgaaac     240
cgaggatgtt tcaaatagga atstcgtcaa agaagtagaa ttcggaatgt gcaccgttac     300
atgtggtatt ggtgttagag aagttatatt aacaaatgga tgccctggtg gtgaatccaa     360
gtgtgttgta cgggtagaag aatgcccgtg gaccaacaga ttgtggctgg ggtaaaccaa     420
tttcagaaag tcttgaaagt gttagattgg catgtattca cacatctccc ttaaatcgtt     480
tcaaatatat gtggaacttc taagacaaga ccacaatcca ttatacttgt aaatgattca     540
gcaatcctag aagtacgcaa ggaaagtcac cccttggctt tcgagtgtga cacactggat     600
aataatgaaa tartagcaac tattaaattc acagtctata cgagcagtga attgcagatg     660
agaagatcaa gcctaccagc cactgatgcc agccctaatt tttgtgctga ccataggagt     720
cattatctgt gtatttataa ttttcttatt gatcttcata atcataaatt gggcagcagt     780
caaggctttc tggggggcaa aagcctctac acctgaggta caatccgagc agagttctgt     840
gagatacaaa gattcaactt ctcttgacca attaccaaca gaaatgcctg gtgaagatga     900
tgctttaagt gaatggaatg aatgatgttt gaatgatata taacaaacca aaggatatta     960
cagaatatta gattcattat tacaaaaata aaatacacat tgaaatactt taaaaaaaaa    1020
aaaaaaaaaa aaactcga                                                   1038
```

<210> 65
<211> 1009
<212> DNA
<213> Homo sapiens

<400> 65
```
aggttgcagt gaagctggag atggcgctac tgcagtccag cctgggcgac agggcaagac      60
tccacctcaa aaaaatatat aaaataaagt gggattcatc caagagcttg ggacatgatt     120
aactaktgtc aaggagatat gtymtgccat tattatcctc cttacttggt agggtacaac     180
agaaacagaa caacaaggtg acagcctttt gctcaagtca aaaagaaaat aagtccctca     240
tcttagttta aagttgttca ttcagtagta cagacttgca tttgaagact tattcttgat     300
cttctgtagc tttgacagca aggacatcac tacaatgggt acagaaataa cacattctga     360
tccttgctga gatccttgta tgggcctatc ttaaatctag cctattgtct gtcttaccct     420
ttgattttta taagtrgaaa acaggaaaag gctaaccaag caagaggaag gcatagattc     480
atcttccttt caatcttgac tatagtttaa agagaatacc atgatctttc tgttctattc     540
ttggcttact tgaatattta gccaggtctc tgcatcttat tcagtcagaa aacagacaca     600
gattcagata actcaaagga tgttacttgc ttgagtaatc cttgggcctc gctttaactt     660
tgtagatcca ggaacagaat taagcagaca gttcggtcta cactgccaaa tttcttaggg     720
aaaaagaggg caagtcagaa ggaggaagtt ggcatttggc tcaaatgacc aaattattta     780
aggtctctac acttcacttt gcaccaagta gacccaagaa tgattataat tcagctacgt     840
gtggtggtgc agatcagtag tcctagctat tcaggaggct gaggcgggtg gattggttga     900
gcccgggagt ttgaggctgc aatgggctat gatctcrgmc tgcgctttag cctgggcaac     960
agaacaagac cctgtctcaa attaaaaaaa aaaaaaaaaa aaactcga                  1009
```

<210> 66
<211> 34
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (27)
<223> Xaa equals any amino acid

30

<400> 66

```
Met Ser Val Phe Leu Leu Ile Thr Leu Ala Leu Ala Ile Leu Tyr Ile
 1               5                  10                  15
```

```
Ile Arg Ser Ile Val Phe Ser Leu Ala Leu Xaa Gln Asn Gly Ser Leu
            20                  25                  30
```

```
Gln Gly
```

<210> 67
<211> 32
<212> PRT
<213> Homo sapiens

<400> 67

```
Met Arg Asn Lys Glu Ser Leu Cys Lys Val Val Leu Lys Ala Leu Tyr
 1               5                  10                  15
```

```
Ala Asn Leu Leu Ile Cys Val Ser Ala Ser Ala Ile Leu Val Gln Cys
            20                  25                  30
```

<210> 68
<211> 206
<212> PRT
<213> Homo sapiens

<400> 68

```
Met Gly Ala Glu Trp Glu Leu Gly Ala Glu Ala Gly Gly Ser Leu Leu
 1               5                  10                  15
```

```
Leu Cys Ala Ala Leu Leu Ala Ala Gly Cys Ala Leu Gly Leu Arg Leu
            20                  25                  30
```

```
Gly Arg Gly Gln Gly Ala Ala Asp Arg Gly Ala Leu Ile Trp Leu Cys
            35                  40                  45
```

```
Tyr Asp Ala Leu Val His Phe Ala Leu Glu Gly Pro Phe Val Tyr Leu
    50                  55                  60
```

```
Ser Leu Val Gly Asn Val Ala Asn Ser Asp Gly Leu Ile Ala Ser Leu
65                  70                  75                  80
```

```
Trp Lys Glu Tyr Gly Lys Ala Asp Ala Arg Trp Val Tyr Phe Asp Pro
                85                  90                  95
```

```
Thr Ile Val Ser Val Glu Ile Leu Thr Val Ala Leu Asp Gly Ser Leu
                100                 105                 110
```

```
Ala Leu Phe Leu Ile Tyr Ala Ile Val Lys Glu Lys Tyr Tyr Arg His
            115                 120                 125
```

```
Phe Leu Gln Ile Thr Leu Cys Val Cys Glu Leu Tyr Gly Cys Trp Met
            130                 135                 140
```

31

Thr Phe Leu Pro Glu Trp Leu Thr Arg Ser Pro Asn Leu Asn Thr Ser
145   150   155   160

Asn Trp Leu Tyr Cys Trp Leu Tyr Leu Phe Phe Phe Asn Gly Val Trp
                165   170   175

Val Leu Ile Pro Gly Leu Leu Leu Trp Gln Ser Trp Leu Glu Leu Lys
            180   185   190

Lys Met His Gln Lys Glu Thr Ser Ser Val Lys Lys Phe Gln
            195   200   205

<210> 69
<211> 215
<212> PRT
<213> Homo sapiens

<400> 69
Met Val Ala Asp Trp Leu Gln Gln Ser Tyr Gln Ala Val Lys Glu Lys
  1   5   10   15

Ser Ser Glu Ala Leu Glu Phe Met Lys Arg Asp Leu Thr Glu Phe Thr
            20   25   30

Gln Val Val Gln His Asp Thr Ala Cys Thr Ile Ala Ala Thr Ala Ser
            35   40   45

Val Val Lys Glu Lys Leu Ala Ile Ala Ala Cys Ser Arg Gly Ala Cys
        50   55   60

Phe Leu Cys Pro Phe Ser Ile Gln Thr Glu Gly Ser Ser Gly Ala Thr
65   70   75   80

Glu Lys Met Lys Lys Gly Leu Ser Asp Phe Leu Gly Val Ile Ser Asp
                85   90   95

Thr Phe Ala Pro Ser Pro Asp Lys Thr Ile Asp Cys Asp Val Ile Thr
            100   105   110

Leu Met Gly Thr Pro Ser Gly Thr Ala Glu Pro Tyr Asp Gly Thr Lys
            115   120   125

Ala Arg Leu Tyr Ser Leu Gln Ser Asp Pro Ala Thr Tyr Cys Asn Glu
    130   135   140

Pro Asp Gly Pro Pro Glu Leu Phe Asp Ala Trp Leu Ser Gln Phe Cys
145   150   155   160

Leu Glu Glu Lys Lys Gly Glu Ile Ser Glu Leu Leu Val Gly Ser Pro
                165   170   175

Ser Ile Arg Ala Leu Tyr Thr Lys Met Val Pro Ala Ala Val Ser His
            180   185   190

Ser Glu Phe Trp His Arg Tyr Phe Tyr Lys Val His Gln Leu Glu Gln
            195   200   205

Glu Gln Ala Arg Arg Thr Pro

32

210   215

<210> 70
<211> 33
<212> PRT
<213> Homo sapiens

<400> 70
Met Arg Leu Leu Leu Pro Ser Leu Leu Gly Gly Leu Ser Val Leu Thr
 1   5   10   15

Thr Ser Leu Gly Ser Val Ala Gly Leu Arg Asn Ser Arg Ala Ala Trp
            20   25   30

Trp

<210> 71
<211> 187
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (73)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (92)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (94)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (126)
<223> Xaa equals any amino acid

<400> 71
Met Gly Thr Ala Ser Thr Gly Pro Trp Ala Ile Pro Thr Trp Ser Pro
 1   5   10   15

Cys Trp Gly Arg Ala Gly Arg Ser Ser Ser Ser Lys Asn Ala Tyr Cys
            20   25   30

Arg Pro Gln Met Thr Phe Trp Leu Leu Ala Leu Arg Ser Thr Ser Ser
        35   40   45

Glu Thr Ser Ser Met Leu Leu Gln Cys Gly Gly Thr Gly Arg Glu Gly
    50   55   60

Trp Leu Ser Val Gln Pro Ala Glu Xaa Val Ser Thr Thr Arg Val Pro
 65   70   75   80

33

```
Arg Asp His Ile Val Gln Phe Leu Arg Leu Leu Xaa Ser Xaa Phe Ile
                 85              90              95

Arg Asn Arg Ala Asp Phe Phe Arg His Phe Ile Asp Glu Glu Met Asp
            100             105             110

Ile Lys Asp Phe Cys Thr His Glu Val Glu Pro Met Ala Xaa Glu Cys
            115             120             125

Asp His Ile Gln Ile Thr Ala Leu Ser Gln Ala Leu Ser Ile Ala Leu
    130             135             140

Gln Val Glu Tyr Val Asp Glu Met Asp Thr Ala Leu Asn His His Val
145             150             155             160

Phe Pro Glu Ala Ala Thr Pro Ser Val Tyr Leu Leu Tyr Lys Thr Ser
            165             170             175

His Tyr Asn Ile Leu Tyr Ala Ala Asp Lys His
            180             185
```

```
<210> 72
<211> 48
<212> PRT
<213> Homo sapiens

<400> 72
Met Phe Ala Pro Cys Phe Val Asn Leu Ala Leu Phe Tyr Leu Tyr Ile
1               5               10              °   15

Asn Ser Cys Asn Leu Leu Asn Leu Thr Ser Ile Asp Pro Phe Gln Gln
            20              25              30

Lys Gly Lys Phe Lys Met Gln Thr Leu Leu Phe Ala Lys Glu Asp Ser
            35              40              45
```

```
<210> 73
<211> 91
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (79)
<223> Xaa equals any amino acid

<400> 73
Met Gln Cys Ile Arg Trp Thr Val Leu Phe Leu Phe Ile Leu Trp Val
1               5               10              15

Leu Val Phe Val Phe Phe Phe Ala Phe Thr Val Arg Leu Gln Met Ile
            20              25              30
```

Val Leu Ile Thr Tyr Ile Ile Asn Lys Cys Gly Pro Ile Ile Tyr Thr
          35   40   45

Glu Ile Thr Leu Gly Tyr Phe Cys Ile Ile Leu Ser Tyr Cys Leu His
     50   55   60

Ser Ile Asn Phe Ser Arg Asp Asn Cys Leu Cys Val Thr Gly Xaa Lys
65   70   75   80

Cys Arg Ile Thr Ser Phe Ile Ile Trp Lys Asn
              85   90

<210> 74
<211> 28
<212> PRT
<213> Homo sapiens

<400> 74
Met Val Phe Leu Asn Phe Leu Ile Tyr Leu Leu Leu Val Phe Phe Tyr
    1   5   10   15

Ile Ser Leu Phe His Ser Arg Asp Asn Phe Ile Leu
              20   25

<210> 75
<211> 86
<212> PRT
<213> Homo sapiens

<400> 75
Met Ala Arg His Val Pro Leu Tyr Arg Ala Leu Leu Glu Leu Leu Arg
    1   5   10   15

Ala Ile Ala Ser Cys Ala Ala Met Val Pro Leu Leu Leu Pro Leu Ser
              20   25   30

Thr Glu Asn Gly Glu Glu Glu Glu Gln Ser Glu Cys Gln Thr Ser
         35   40   45

Val Gly Thr Leu Leu Ala Lys Met Lys Thr Cys Val Asp Thr Tyr Thr
     50   55   60

Asn Arg Leu Arg Tyr Tyr Ile Gln Cys Ser Phe Leu Leu Ser Leu Pro
65   70   75   80

Leu Thr Met Phe Leu Lys
              85

<210> 76
<211> 124
<212> PRT
<213> Homo sapiens

<400> 76
Met Leu Leu Ile Leu Val Thr Pro Val Pro Thr Arg Leu Arg Ala Arg

35

```
        1                5                      10                     15
    Pro Arg Leu Asp Leu Leu Val Leu Thr Pro Arg Ala Cys Pro Ala Ser
                20                  25              30

    Arg Val Arg Gly Arg Leu Ser Cys Arg Arg Thr Leu Pro Arg Met Gly
                35              40              45

    Pro Ala Ser Cys Ser Ala Leu Ala Thr Asn Ala Ala Pro Gly Pro Pro
                50          55                  60

    His Pro Ala Gly Pro Ala Phe Ser Ser Ile Ser His Met Ala Thr Thr
    65              70                  75                      80

    Pro Gln Ser Leu Glu Pro Pro Ala Gly Asn Ser Val Pro Gln Ser Leu
                    85              90                  95

    Met Ser Ile Leu Asp Pro Ala Ser Ser Trp Val Pro Lys Ser Ala Ser
                100             105             110

    Pro Pro Arg Val Ala Cys Pro Cys Pro Pro Ala Leu
                115             120
```

<210> 77
<211> 38
<212> PRT
<213> Homo sapiens

<400> 77
```
Met His Leu Phe Leu Phe Ile Trp Ala Phe Gly Leu Pro Leu His Ile
    1                5                      10                     15

Ser Arg Asp Leu Ala Phe Phe Phe Leu Leu Tyr Phe Leu Phe Phe Tyr
                20                  25                  30

Leu Leu Cys Val Leu Leu
                35
```

<210> 78
<211> 64
<212> PRT
<213> Homo sapiens

<400> 78
```
Met Asn Ala Ser Cys Ser Leu Ala His Phe Glu His Ser Gly Met Ser
    1                5                      10                  15

Val Leu Leu Val His Leu Phe Ile Ile Val Ser Thr Val Pro Ser Cys
                20                  25                  30

Phe Lys Lys Tyr Met Ala Phe Ile Ile Tyr Pro Ala Phe Ser Cys His
                35                  40                  45

Phe Asn Lys Ser Met Cys Leu Ile Gln Leu Leu His Ser Ser Gln Lys
        50                  55                  60
```

36

<210> 79
<211> 108
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (62)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (63)
<223> Xaa equals any amino acid

<400> 79
Met Gly Ala Ala Lys Val Trp Gly Glu Val Gly Arg Trp Leu Val Ile
 1   5   10   15

Ala Leu Ile Gln Leu Ala Lys Ala Val Leu Arg Met Leu Leu Leu Leu
            20   25   30

Trp Phe Lys Ala Gly Leu Gln Thr Ser Pro Pro Ile Val Pro Leu Asp
        35   40   45

Arg Glu Thr Arg His Ser Pro Arg Met Val Thr Thr Ala Xaa Xaa Thr
    50   55   60

Met Ser Ser Pro Thr Trp Gly Ser Gly Gln Thr Gly Trp Cys Glu Pro
65   70   75   80

Ser Arg Thr Arg Arg Pro Cys Thr Pro Gly Thr Gly Glu Leu Pro Ser
                85   90   95

Ser Gly Arg Asp Gly Ser Ser Ser Ile Thr Arg Ser
            100   105

<210> 80
<211> 43
<212> PRT
<213> Homo sapiens

<400> 80
Met Asp Ile Ala Ala Pro Val Leu Phe Ala Leu Arg Leu Gln Phe Leu
 1   5   10   15

Phe Ile Leu Leu Pro Met His Phe Glu Ile Ser Leu Leu Cys Lys Val
            20   25   30

Ser Thr Glu Thr Ser Gly Arg Glu Asp Lys Met
        35   40

<210> 81

37

<211> 49
<212> PRT
<213> Homo sapiens

<400> 81
Met Ala Thr Asp Glu Arg Val Leu Arg Lys Ala His Ser Thr Pro Ala
 1   5   10   15

Leu Phe Gln Leu Val Leu Asn Leu Val Gln Cys Pro Ser Pro Ala Ser
             20   25   30

Gly Val Lys Ser His Leu Leu Pro His Lys Glu Arg His Lys Ser Met
         35   40   45

Glu

<210> 82
<211> 29
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (14)
<223> Xaa equals any amino acid

<400> 82
Met Gly Val Leu His Leu Leu Ala Xaa Phe Leu Leu Val Xaa Gly Arg
 1   5   10   15

Val Pro Gly Leu Gly Gly Val Pro Gly Gly Gly Glu Gly
             20   25

<210> 83
<211> 41
<212> PRT
<213> Homo sapiens

<400> 83
Met Ser Tyr Lys Trp Asn Ser Arg Val Cys Phe Leu Trp Ser Arg Thr
 1   5   10   15

Phe His Leu Met Leu Leu Arg Leu Ile Cys Leu Val Ala Tyr Ile Ser
             20   25   30

Thr Glu Val Ile Ser Phe Ile Ala Glu
         35   40

<210> 84

<211> 89
<212> PRT
<213> Homo sapiens

<400> 84
Met Leu Leu Leu Val Tyr Phe Leu Leu Met Ser Val Ile Phe Gly Thr
1   5   10   15

Lys Phe Phe Pro Leu Ile Ile His Met Phe Asn Pro Cys Ile Leu Asn
            20   25   30

Leu Ile Lys Leu Val Phe Ser Leu Met Pro Gly Ser His Gln Thr Pro
            35   40   45

Asn Val Gln Ala Thr Arg Ala Ser Asp Asp Gly Ser Ala Leu Leu Gly
        50   55   60

Thr Pro Ser Arg Pro Leu Gly Ser Ile Arg Gln Gln Phe Thr Pro Lys
65   70   75   80

Glu Cys Pro Leu Ser Ala Gly Ser Ser
                85

<210> 85
<211> 108
<212> PRT
<213> Homo sapiens

<400> 85
Met Lys Ala Leu Cys Leu Leu Leu Leu Pro Val Leu Gly Leu Leu Val
1   5   10   15

Ser Ser Lys Thr Leu Cys Ser Met Glu Glu Ala Ile Asn Glu Arg Ile
            20   25   30

Gln Glu Val Ala Gly Ser Leu Ile Phe Arg Ala Ile Ser Ser Ile Gly
            35   40   45

Leu Glu Cys Gln Ser Val Thr Ser Arg Gly Asp Leu Ala Thr Cys Pro
        50   55   60

Arg Gly Phe Ala Val Thr Gly Cys Thr Cys Gly Ser Ala Cys Gly Ser
65   70   75   80

Trp Asp Val Arg Ala Glu Thr Thr Cys His Cys Gln Cys Ala Gly Met
                85   90   95

Asp Trp Thr Gly Ala Arg Cys Cys Arg Val Gln Pro
            100   105

<210> 86
<211> 303
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

39

<222> (203)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (267)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (274)
<223> Xaa equals any amino acid

<400> 86

```
Met Gly Ser Gly Gly Asp Ser Leu Leu Gly Gly Arg Gly Ser Leu Pro
 1               5                  10                  15

Leu Leu Leu Leu Leu Ile Met Gly Gly Met Ala Gln Asp Ser Pro Pro
            20                  25                  30

Gln Ile Leu Val His Pro Gln Asp Gln Leu Phe Gln Gly Pro Gly Pro
        35                  40                  45

Ala Arg Met Ser Cys Arg Ala Ser Gly Gln Pro Pro Pro Thr Ile Arg
    50                  55                  60

Trp Leu Leu Asn Gly Gln Pro Leu Ser Met Val Pro Pro Asp Pro His
65                  70                  75                  80

His Leu Leu Pro Asp Gly Thr Leu Leu Leu Gln Pro Pro Ala Arg
                85                  90                  95

Gly His Ala His Asp Gly Gln Ala Leu Ser Thr Asp Leu Gly Val Tyr
            100                 105                 110

Thr Cys Glu Ala Ser Asn Arg Leu Gly Thr Ala Val Ser Arg Gly Ala
        115                 120                 125

Arg Leu Ser Val Ala Val Leu Arg Glu Asp Phe Gln Ile Gln Pro Arg
    130                 135                 140

Asp Met Val Ala Val Val Gly Glu Gln Phe Thr Leu Glu Cys Gly Pro
145                 150                 155                 160

Pro Trp Gly His Pro Glu Pro Thr Val Ser Trp Trp Lys Asp Gly Lys
                165                 170                 175

Pro Leu Ala Leu Gln Pro Gly Arg His Thr Val Ser Gly Gly Ser Leu
            180                 185                 190

Leu Met Ala Arg Ala Glu Lys Ser Asp Glu Xaa Thr Tyr Met Cys Val
        195                 200                 205

Ala Thr Asn Ser Ala Gly His Arg Glu Ser Arg Ala Ala Arg Val Ser
    210                 215                 220

Ile Gln Glu Pro Gln Asp Tyr Thr Glu Pro Val Glu Leu Leu Ala Val
225                 230                 235                 240

Arg Ile Gln Leu Glu Asn Val Thr Leu Leu Asn Pro Asp Pro Ala Glu
                245                 250                 255
```

40

```
Gly Pro Lys Pro Arg Pro Ala Val Trp Leu Xaa Trp Lys Val Ser Gly
            260                 265                 270

Pro Xaa Arg Leu Pro Asn Leu Thr Arg Pro Cys Ser Gly Pro Arg Leu
        275                 280                 285

Pro Arg Glu Ala Arg Glu Leu Arg Gly Gln Arg Arg Asn Thr Gly
    290                 295                 300
```

<210> 87
<211> 56
<212> PRT
<213> Homo sapiens

<400> 87
```
Met Leu Met Asn Pro Ile Arg Arg Arg Phe Gln Gln Val Pro His Pro
 1               5                  10                  15

Pro Leu Leu Leu Leu Leu Leu Leu Thr Ala Arg Thr Gly Gly Gly
            20                  25                  30

Gln Gly Asp Thr Trp Ala Asp Pro Pro Ala Leu Pro Pro Pro His Pro
        35                  40                  45

Ala Pro His Ile Ile Leu Gln Ser
    50                  55
```

<210> 88
<211> 30
<212> PRT
<213> Homo sapiens

<400> 88
```
Met Gln Ser Tyr Ser Leu Val Phe Leu Val Val Tyr Leu Ile Leu Pro
 1               5                  10                  15

Tyr Ser Ser Phe Lys Glu Asn Ser Ile Phe Ile Thr Val Asn
            20                  25                  30
```

<210> 89
<211> 68
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (37)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (62)
<223> Xaa equals any amino acid

41

<220>
<221> SITE
<222> (64)
<223> Xaa equals any amino acid

<400> 89
Met Ala Leu Gly Ala Leu Ser Leu Asn Ala Ala Leu Ala Pro Trp Ala
1   5   10   15

Ser Ser Pro Gly Pro Asp Leu Pro Ile Leu Lys Glu Lys Gln Pro Leu
            20   25   30

Ser Ser Tyr Pro Xaa Ser Gly Gly Ala Arg Phe Arg Leu Pro Thr Thr
        35   40   45

Ser Leu Gly Thr Arg Glu Ser Ser Ser Phe Thr Thr Cys Xaa Val Xaa
    50   55   60

Gly Ala Gly Leu
    65

<210> 90
<211> 25
<212> PRT
<213> Homo sapiens

<400> 90
Met Ile Thr Ser His Leu Arg Glu Ala Lys Leu Lys Val His Leu Gln
1   5   10   15

Glu Glu Leu Trp Pro Asp Ile Ala Asn
            20   25

<210> 91
<211> 212
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (180)
<223> Xaa equals any amino acid

<400> 91
Met Lys Val Phe Lys Phe Ile Gly Leu Met Ile Leu Leu Thr Ser Ala
1   5   10   15

Phe Ser Ala Gly Ser Gly Gln Ser Pro Met Thr Val Leu Cys Ser Ile
            20   25   30

Asp Trp Phe Met Val Thr Val His Pro Phe Met Leu Asn Asn Asp Val
        35   40   45

Cys Val His Phe His Glu Leu His Leu Gly Leu Gly Cys Pro Pro Asn
    50   55   60

His Val Gln Pro His Ala Tyr Gln Phe Thr Tyr Arg Val Thr Glu Cys

42

```
            65                    70                  75                  80
Gly Ile Arg Ala Lys Ala Val Ser Gln Asp Met Val Ile Tyr Ser Thr
                85                  90                  95
Glu Ile His Tyr Ser Ser Lys Gly Thr Pro Ser Lys Phe Val Ile Pro
            100                 105                 110
Val Ser Cys Ala Ala Pro Gln Lys Ser Pro Trp Leu Thr Lys Pro Cys
            115                 120                 125
Ser Met Arg Val Ala Ser Lys Ser Arg Ala Thr Ala Arg Arg Met Arg
            130                 135                 140
Asn Ala Thr Arg Cys Ser Ala Cys His Ser Pro Val Lys Gly Pro Thr
145                 150                 155                 160
Ala Ile Val His Leu Val Ser Ser Val Lys Lys Ser Ile Pro Arg Ser
            165                 170                 175
Leu Val Thr Xaa Ala Gly Ala Gln Glu Ala Gln Pro Leu Gln Pro Ser
            180                 185                 190
His Phe Leu Asp Ile Ser Glu Asp Trp Ser Leu His Thr Asp Asp Met
            195                 200                 205
Ile Gly Ser Met
    210


<210> 92
<211> 44
<212> PRT
<213> Homo sapiens

<400> 92
Met Asn Asn Ala Ala Lys Asn Ile Asn Val Gln Val Ser Val Trp Thr
    1               5                   10                  15
Tyr Ala Phe Ile Ser Leu Ile Phe Ile Leu Phe His Leu Gly Val Glu
                20                  25                  30
Leu Leu Gly Cys Met Val Val Leu Cys Leu Thr Val
            35                  40


<210> 93
<211> 40
<212> PRT
<213> Homo sapiens

<400> 93
Met Ser Ser Asn Thr Tyr Ile Val Leu Val Cys Gln Ala Leu Leu Ile
    1               5                   10                  15
Thr Ala Met Asn Arg Gly Pro Pro Asn Lys Cys Asn Arg Val Tyr Leu
                20                  25                  30
Phe Leu Asn Leu Cys His His Tyr
```

43

<210> 94
<211> 115
<212> PRT
<213> Homo sapiens

<400> 94

Met	Gln	Leu	Ser	Val	Cys	Val	Ile	Thr	Thr	Ser	Leu	Leu	Phe	Asn	Ser
1				5					10					15	

Met Gln Leu Ser Val Cys Val Ile Thr Thr Ser Leu Leu Phe Asn Ser
1   5   10   15

Ile Thr Leu Tyr Phe Ser Lys Met Pro Arg Ser Pro Gly Ser Tyr Ala
              20   25   30

Asp Leu Gln Arg Phe Tyr Phe Leu Ala Leu Glu Ser Ala Glu Ile Arg
          35   40   45

Arg His Arg Ala Gln Arg Ser Ser Leu Gly Thr Arg Ile Ala Phe Ala
      50   55   60

Leu Ala Gly Tyr Val Tyr Thr Asp Glu Tyr Lys Met Phe Phe Ser Leu
65   70   75   80

Gly Phe Leu Leu Leu Phe Ser Pro Pro Ser His Leu Pro Phe Ser Pro
              85   90   95

Thr Pro Pro Pro Lys Lys Ala Thr Ser Ser Phe Arg Gly Thr Ile Ile
              100   105   110

Phe Phe Asn
      115

<210> 95
<211> 83
<212> PRT
<213> Homo sapiens

<400> 95

Met Ser Phe Phe Gln Leu Leu Met Lys Arg Lys Glu Leu Ile Pro Leu
1   5   10   15

Val Val Phe Met Thr Val Ala Ala Gly Gly Ala Ser Ser Phe Ala Val
              20   25   30

Tyr Ser Leu Trp Lys Thr Asp Val Ile Leu Asp Arg Lys Lys Asn Pro
          35   40   45

Glu Pro Trp Glu Thr Val Asp Pro Thr Val Pro Gln Lys Leu Ile Thr
      50   55   60

Ile Asn Gln Gln Trp Lys Pro Ile Glu Glu Leu Gln Asn Val Gln Arg
65   70   75   80

Val Thr Lys

<210> 96
<211> 49
<212> PRT
<213> Homo sapiens

<400> 96
Met Pro Ser Ser Glu Cys Arg Ser Ser Ala Leu Leu Leu Asn Val Ser
1   5   10   15

Leu Ala Glu Ser Glu Ala Gly Arg Arg Pro Gly Lys Pro Gly Trp Ala
            20   25   30

Glu Glu Ala Thr Gly Gly Arg Arg Ala Ser Arg Lys Asp Gly Thr Gln
        35   40   45

Gly

<210> 97
<211> 34
<212> PRT
<213> Homo sapiens

<400> 97
Met Ala His Arg Ser Trp Ile Leu Ser Ser Ser Leu Leu Pro Ile Pro
1   5   10   15

Ile Phe Phe Leu Leu Pro Pro Ser Ser Ala Ala Thr Leu Ala Thr Pro
            20   25   30

Gly Ser

<210> 98
<211> 44
<212> PRT
<213> Homo sapiens

<400> 98
Met Leu Val Phe Leu Pro Phe Thr Val Leu Val Leu Ile Ser Tyr Ile
1   5   10   15

Phe Ser Ser His Ser Phe Asn Pro Leu Phe Thr Leu Cys Asp Phe Glu
            20   25   30

Gln Val Leu Leu His Leu Lys Ile Phe Ser His Pro
        35   40

<210> 99
<211> 42
<212> PRT
<213> Homo sapiens

<400> 99

45

Met Ala Leu Val Ile Ser Ala Pro Pro Pro Asn Ser Pro Cys Asn Cys
1   5   10   15

Phe Phe Phe Ile Phe Leu Phe Ile Leu Pro Leu Ile Phe Pro Leu Phe
                20   25   30

Lys Gly Leu Phe Ala Thr Phe Val Phe Phe
            35   40

<210> 100
<211> 44
<212> PRT
<213> Homo sapiens

<400> 100
Met Ala Ser Thr Leu Glu Thr Ile Arg Pro Leu Gly Phe Leu Leu Leu
1   5   10   15

Tyr Cys Phe Ile Ser Leu Leu Tyr Leu Pro Val Leu Glu Thr Ser Phe
                20   25   30

Ser Phe Leu Leu Val Trp Arg Leu Glu Pro Ile Val
            35   40

<210> 101
<211> 165
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (56)
<223> Xaa equals any amino acid

<400> 101
Met Lys Ile Ala Val Leu Phe Cys Phe Phe Leu Leu Ile Ile Phe Gln
1   5   10   15

Thr Asp Phe Gly Lys Asn Glu Glu Ile Pro Arg Lys Gln Arg Arg Lys
                20   25   30

Ile Tyr His Arg Arg Leu Arg Lys Ser Ser Thr Ser His Lys His Arg
            35   40   45

Ser Asn Arg Gln Leu Gly Ile Xaa Gln Thr Thr Val Phe Thr Pro Val
        50   55   60

Ala Arg Leu Pro Ile Val Asn Phe Asp Tyr Ser Met Glu Glu Lys Phe
65   70   75   80

Glu Ser Phe Ser Ser Phe Pro Gly Val Glu Ser Ser Tyr Asn Val Leu
                85   90   95

Pro Gly Lys Lys Gly His Cys Leu Val Lys Gly Ile Thr Met Tyr Asn
                100   105   110

Lys Ala Val Trp Ser Pro Glu Pro Cys Thr Thr Cys Leu Cys Ser Asp

46

```
                115                    120                    125
Gly Arg Val Leu Cys Asp Glu Thr Met Cys His Pro Gln Arg Cys Pro
    130                 135                 140

Gln Thr Val Ile Pro Glu Gly Glu Cys Cys Pro Val Cys Pro Leu Leu
145                 150                 155                 160

Val Gln Ser Phe Ser
                165



<210> 102
<211> 62
<212> PRT
<213> Homo sapiens

<400> 102
Met Leu Gly Leu Gln Pro Gln Gly Leu Gly Trp Pro Ala Leu Leu Leu
  1               5                  10                  15

Leu Ile Leu Lys Thr Phe Lys Val Gly Gly Trp Gln Gly Met Cys Leu
             20                  25                  30

Ile Asn Gln Phe Gln Ala Ser Lys Lys Lys Lys Lys Lys Lys Lys Lys
          35                  40                  45

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
     50                  55                  60



<210> 103
<211> 74
<212> PRT
<213> Homo sapiens

<400> 103
Met Val Val Ile Thr Val Leu Leu Ser Val Ala His Val Pro Ala Gly
  1               5                  10                  15

Ala Gly Leu His His Cys Pro Gly Thr Gly Leu Pro Gln Val Arg Arg
             20                  25                  30

Ser Ala Arg Ser Ser Ser Phe Ser Arg Lys Pro Arg Ala Pro Ser Ser
          35                  40                  45

Ser Pro Ala His Leu Leu Pro Gly Pro Arg Pro Val Ala Pro Leu Val
     50                  55                  60

Pro Ser Leu Leu Leu Cys Pro Pro Leu Pro
 65                  70



<210> 104
<211> 73
<212> PRT
<213> Homo sapiens
```

47

```
<220>
<221> SITE
<222> (71)
<223> Xaa equals any amino acid

<400> 104
Met Leu Ser Val Gly Ile Ala Leu Ala Ala Leu Gly Ser Leu Leu Leu
 1               5                  10                  15

Leu Gly Leu Leu Leu Tyr Gln Val Gly Val Ser Gly His Cys Pro Ser
            20                  25                  30

Ile Cys Met Ala Thr Pro Ser Thr His Ser Gly His Gly Gly His Gly
        35                  40                  45

Ser Ile Phe Ser Ile Ser Gly Gln Leu Ser Ala Gly Arg Arg His Glu
    50                  55                  60

Thr Thr Ser Ser Ile Ala Xaa Leu Ile
65                  70


<210> 105
<211> 163
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (106)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (113)
<223> Xaa equals any amino acid

<400> 105
Met Ser Pro Arg Gly Thr Gly Cys Ser Ala Gly Leu Leu Met Thr Val
 1               5                  10                  15

Gly Trp Leu Leu Leu Ala Gly Leu Gln Ser Ala Arg Gly Thr Asn Val
            20                  25                  30

Thr Ala Ala Val Gln Asp Ala Gly Leu Ala His Glu Gly Glu Gly Glu
        35                  40                  45

Glu Glu Thr Glu Asn Asn Asp Ser Glu Thr Ala Glu Asn Tyr Ala Pro
    50                  55                  60

Pro Glu Thr Glu Asp Val Ser Asn Arg Asn Val Val Lys Glu Val Glu
65                  70                  75                  80

Phe Gly Met Cys Thr Val Thr Cys Gly Ile Gly Val Arg Glu Val Ile
                85                  90                  95

Leu Thr Asn Gly Cys Pro Gly Gly Glu Xaa Lys Cys Val Val Arg Val
            100                 105                 110

Xaa Glu Cys Arg Gly Pro Thr Asp Cys Gly Trp Gly Lys Pro Ile Ser
```

48

```
                115                     120                     125
Glu Ser Leu Glu Ser Val Arg Leu Ala Cys Ile His Thr Ser Pro Leu
        130                     135                 140

Ile Val Ser Ile Tyr Val Glu Leu Leu Arg Gln Thr Thr Ile His Tyr
145                     150                 155                 160

Thr Cys Lys
```

```
<210> 106
<211> 54
<212> PRT
<213> Homo sapiens

<400> 106
Met Phe Met Pro Leu Leu Ser Ser Leu Leu Gly Arg Val Gln Gln Lys
  1               5                   10                  15

Gln Asn Asn Lys Val Thr Ala Phe Cys Ser Ser Gln Lys Glu Asn Lys
                20                  25                  30

Ser Leu Ile Leu Gly Leu Lys Leu Phe Ile Gln Val Val Gln Thr Cys
            35                  40                  45

Ile Trp Lys Thr Tyr Ser
        50
```

```
<210> 107
<211> 25
<212> PRT
<213> Homo sapiens

<400> 107
Met Ser Lys Thr Phe Leu Ser Ala Phe Leu Phe Leu Thr Val Leu Ser
  1               5                   10                  15

Leu Thr Val Leu Ser Ile Cys Ser Asn
                20                  25
```

```
<210> 108
<211> 27
<212> PRT
<213> Homo sapiens

<400> 108
Met Cys Leu Phe Val Ser Leu Leu Ile Leu Ser Leu Gly Ile Gly Lys
  1               5                   10                  15

His Ser Met Asn Ile Tyr Thr Leu Thr Phe Phe
                20                  25
```

49

<210> 109
<211> 61
<212> PRT
<213> Homo sapiens

<400> 109

```
Met Gln Leu Arg Gly Leu Ser Leu Asn Pro Arg Leu Leu Leu Thr Leu
 1               5                  10                  15

Gly Ser Phe Asn Gln Val Gly Gln Pro Leu Leu Gln Arg Gly Val Gly
            20                  25                  30

Trp Leu Ser Ser Leu Ser His Ala Ala Cys Glu Asp Arg Gly Gly Gly
        35                  40                  45

Val Gly Ser Gly Lys Ser Pro Glu Asn Arg Arg Gly Ile
    50                  55                  60
```

<210> 110
<211> 50
<212> PRT
<213> Homo sapiens

<400> 110

```
Met Leu Leu Thr Leu Phe Ala His Thr Ala Leu Asp Thr Tyr Leu Leu
 1               5                  10                  15

Ser Glu Ala Phe Phe Pro His Ser Ile Leu Pro Ala Leu Leu Leu Ile
            20                  25                  30

Lys Ile Ser Ser Ala Cys Ser Gln Thr Gln Ser Glu Ser Gln Lys Asn
        35                  40                  45

Pro Ala
    50
```

<210> 111
<211> 170
<212> PRT
<213> Homo sapiens

<400> 111

```
Met Thr Val Leu Ile Asn Ile Ile Leu Ser Leu Val Lys Thr Gly Pro
 1               5                  10                  15

Gly Gln His Leu Asn His Ser Glu Leu Ala Ile Leu Leu Asn Leu Leu
            20                  25                  30

Gln Ser Lys Thr Ser Val Asn Met Ala Asp Phe Val Gln Val Leu Asn
        35                  40                  45

Ile Lys Val Asn Ser Glu Thr Gln Gln Gln Leu Asn Lys Ile Asn Leu
    50                  55                  60

Pro Ala Gly Ile Leu Ala Thr Gly Glu Lys Gln Thr Asp Pro Ser Thr
65                  70                  75                  80
```

```
Pro Gln Gln Glu Ser Ser Lys Pro Leu Gly Gly Ile Gln Pro Ser Ser
                85              90                  95

Gln Thr Ile Gln Pro Lys Val Glu Thr Asp Ala Ala Gln Ala Ala Val
            100             105             110

Gln Ser Ala Phe Ala Val Leu Leu Thr Gln Leu Ile Lys Ala Gln Gln
            115             120             125

Ser Lys Gln Lys Asp Val Leu Leu Glu Glu Arg Glu Asn Gly Ser Gly
    130             135             140

His Glu Ala Ser Leu Gln Leu Arg Pro Leu Gln Asn Leu Ala Leu Arg
145             150             155             160

Cys Arg Val Ser Val Gln Ile Pro Asp His
            165             170
```

<210> 112
<211> 39
<212> PRT
<213> Homo sapiens

<400> 112
```
Met Leu Leu Leu Leu Lys Thr Leu Phe Val Thr Phe Trp Ser Thr Asn
1               5               10                  15

Leu Ser Ile Thr Phe Ser Asn Tyr Asn Val Lys Leu Tyr Gln Trp Gln
            20              25              30

Ser Tyr Ile Val Asn Gly Ser
        35
```

<210> 113
<211> 64
<212> PRT
<213> Homo sapiens

<400> 113
```
Met Lys Gln His His Ile Leu Gln Arg Asn Leu Leu Gly Lys Glu Glu
1               5               10              15

Pro Ile Asp Met Ala Asn Ile Ile Val Val Leu Phe Ser Glu Ile Ala
            20              25              30

Ala Ala Thr Pro Ala Phe Ser Ser His His Pro Asp Pro Ser Ala Ala
            35              40              45

Ser Asn Ile Lys Ala Arg Phe Ser Thr Ser Gln Lys Lys Lys Thr Leu
    50              55              60
```

<210> 114

51

<211> 27
<212> PRT
<213> Homo sapiens

<400> 114
Met Val Leu Phe Leu Phe Phe Val Phe Val Phe Cys Leu Tyr Trp Glu
1   5   10   15

Leu Ala Leu Leu Val Thr Ser Leu Phe Ser Phe
            20   25

<210> 115
<211> 70
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (60)
<223> Xaa equals any amino acid

<400> 115
Met Glu Phe Thr Gln Ile Val Leu Ser Phe Arg Thr Lys Glu Met Pro
1   5   10   15

Val Ile Phe Leu Ile Val Asn Leu Ala Lys His Arg Leu Lys Glu Trp
                20   25   30

Leu Ser Ser Leu Pro Ser Thr Leu Ser Leu Leu Leu Ile Cys Ala Lys
            35   40   45

Cys His Cys Leu Leu Leu Ile Pro Lys Thr Val Xaa Ser Ser Leu Cys
        50   55   60

Leu Leu Pro Asn Ser Lys
    65   70

<210> 116
<211> 21
<212> PRT
<213> Homo sapiens

<400> 116
Gly Ala Ala Gly Ile Ser Gly Glu Pro Gly Ala Ser Arg Cys Cys Ser
1   5   10   15

Gly Asp Ser Cys Thr
                20

<210> 117
<211> 55
<212> PRT
<213> Homo sapiens

<400> 117

52

Met Ser Ser Asp Phe Leu Cys Phe Phe Phe Lys Leu Cys Asn Gln Met
1   5   10   15

Ile Leu Cys Phe Phe Phe Arg Gly Ala Glu Tyr Trp Phe Leu Leu Leu
            20   25   30

Val Val Phe Ser Phe Leu Cys His Ser Cys Phe Phe Phe Val Phe Ser
        35   40   45

Val Ser Asn Thr Ile Cys Ile
    50   55

<210> 118
<211> 88
<212> PRT
<213> Homo sapiens

<400> 118
Met Lys Ile Ala Val Leu Phe Cys Phe Phe Leu Leu Ile Ile Phe Gln
1   5   10   15

Thr Asp Phe Gly Lys Asn Glu Glu Ile Pro Arg Lys Gln Arg Arg Lys
            20   25   30

Ile Tyr His Arg Arg Leu Arg Lys Ser Ser Thr Ser His Lys His Arg
        35   40   45

Ser Asn Arg Gln Leu Gly Ile Pro Gln Thr Thr Val Phe Thr Pro Val
    50   55   60

Ala Arg Leu Pro Ile Val Asn Phe Asp Tyr Ser Met Glu Glu Lys Phe
65   70   75   80

Glu Ser Phe Gln Val Phe Leu Glu
                85

<210> 119
<211> 124
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (75)
<223> Xaa equals any amino acid

<400> 119
Met Ser Pro Arg Gly Thr Gly Cys Ser Ala Gly Leu Leu Met Thr Val
1   5   10   15

Gly Trp Leu Leu Leu Ala Gly Leu Gln Ser Ala Arg Gly Thr Asn Val
            20   25   30

Thr Ala Ala Val Gln Asp Ala Gly Leu Ala His Glu Gly Glu Gly Glu
        35   40   45

Glu Glu Thr Glu Asn Asn Asp Ser Glu Thr Ala Glu Asn Tyr Ala Pro

53

```
            50                    55                         60
Ser Glu Thr Glu Asp Val Ser Asn Arg Asn Xaa Val Lys Glu Val Glu
  65                    70                    75                 80
Phe Gly Met Cys Thr Val Thr Cys Gly Ile Gly Val Arg Glu Val Ile
                   85                    90                    95
Leu Thr Asn Gly Cys Pro Gly Gly Glu Ser Lys Cys Val Val Arg Val
                  100                   105                   110
Glu Glu Cys Pro Trp Thr Asn Arg Leu Trp Leu Gly
                  115                   120
```

<210> 120
<211> 34
<212> PRT
<213> Homo sapiens

<400> 120

```
Pro Leu Leu Ser Ser Leu Leu Gly Arg Val Gln Gln Lys Gln Asn Asn
  1               5                    10                   15
Lys Val Thr Ala Phe Cys Ser Ser Gln Lys Glu Asn Lys Ser Leu Ile
                   20                    25                   30
Leu Val
```

<210> 121
<211> 19
<212> PRT
<213> Homo sapiens

<400> 121

```
Gly Thr Pro Gly Val Ser Thr His Ile Trp Gly Lys Pro Asp Pro Gln
  1               5                    10                   15
Val Thr Asp
```

<210> 122
<211> 206
<212> PRT
<213> Homo sapiens

<400> 122

```
Met Gly Ala Glu Trp Glu Leu Gly Ala Glu Ala Gly Gly Ser Leu Leu
  1               5                    10                   15
Leu Cys Ala Ala Leu Leu Ala Ala Gly Cys Ala Leu Gly Leu Arg Leu
                   20                    25                   30
Gly Arg Gly Gln Gly Ala Ala Asp Arg Gly Ala Leu Ile Trp Leu Cys
           35                    40                    45
```

54

```
Tyr Asp Ala Leu Val His Phe Ala Leu Glu Gly Pro Phe Val Tyr Leu
    50                  55                  60

Ser Leu Val Gly Asn Val Ala Asn Ser Asp Gly Leu Ile Ala Ser Leu
65                  70                  75                      80

Trp Lys Glu Tyr Gly Lys Ala Asp Ala Arg Trp Val Tyr Phe Asp Pro
                85                  90                  95

Thr Ile Val Ser Val Glu Ile Leu Thr Val Ala Leu Asp Gly Ser Leu
                100                 105                 110

Ala Leu Phe Leu Ile Tyr Ala Ile Val Lys Glu Lys Tyr Tyr Arg His
        115                 120                 125

Phe Leu Gln Ile Thr Leu Cys Val Cys Glu Leu Tyr Gly Cys Trp Met
    130                 135                 140

Thr Phe Leu Pro Glu Trp Leu Thr Arg Ser Pro Asn Leu Asn Thr Ser
145                 150                 155                 160

Asn Trp Leu Tyr Cys Trp Leu Tyr Leu Phe Phe Phe Asn Gly Val Trp
                165                 170                 175

Val Leu Ile Pro Gly Leu Leu Leu Trp Gln Ser Trp Leu Glu Leu Lys
                180                 185                 190

Lys Met His Gln Lys Glu Thr Ser Ser Val Lys Lys Phe Gln
        195                 200                 205


<210> 123
<211> 55
<212> PRT
<213> Homo sapiens

<400> 123
Met Asn Gln Ile Phe Leu Phe Gly Gln Asn Val Ile His Ser Ser Leu
  1                 5                   10                  15

His Phe Val Phe Val Leu Leu Leu Leu Asn Asn Leu Phe Gln Ile Gly
                20                  25                  30

Phe Lys Ala Thr Ser Phe Arg Cys Ile Val Val Gln Leu Asn Gly Asp
        35                  40                  45

Ile Gly Lys Arg Glu Gln Ile
    50                  55


<210> 124
<211> 202
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
```

<223> Xaa equals any amino acid

<400> 124
```
Ser Pro Ser Val Arg Ala Gly Ala Gly Pro Glu Asp Ala Leu Lys Gln
 1               5                  10                  15

Arg Ala Glu Gln Ser Ile Xaa Glu Glu Pro Gly Trp Glu Glu Glu Glu
             20                  25                  30

Glu Glu Leu Met Gly Ile Ser Pro Ile Ser Pro Lys Glu Ala Lys Val
         35                  40                  45

Pro Val Ala Lys Ile Ser Thr Phe Pro Glu Gly Glu Pro Gly Pro Gln
     50                  55                  60

Ser Pro Cys Glu Glu Asn Leu Val Thr Ser Val Glu Pro Pro Ala Glu
 65                  70                  75                  80

Val Thr Pro Ser Glu Ser Ser Glu Ser Ile Ser Leu Val Thr Gln Ile
                 85                  90                  95

Ala Asn Pro Ala Thr Ala Pro Glu Ala Arg Val Leu Pro Lys Asp Leu
             100                 105                 110

Ser Gln Lys Leu Leu Glu Ala Ser Leu Glu Glu Gln Gly Leu Ala Val
         115                 120                 125

Asp Val Gly Glu Thr Gly Pro Ser Pro Pro Ile His Ser Lys Pro Leu
     130                 135                 140

Thr Pro Ala Gly His Arg Phe Trp Trp Leu Pro Ala Gly Pro Leu Gly
145                 150                 155                 160

Pro Leu Leu Thr Pro Gly Lys Gly Leu Ser Lys Ser Arg Pro Glu Thr
                 165                 170                 175

Leu Thr Cys Ala Asn Asn Arg Met Thr Gln Gly Arg Gly Asn Leu Ser
             180                 185                 190

Ser Ser Pro Glu Glu Pro Val Phe Phe Cys
             195                 200
```

<210> 125
<211> 24
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any amino acid

<400> 125
```
Gly Pro Glu Asp Ala Leu Lys Gln Arg Ala Glu Gln Ser Ile Xaa Glu
 1               5                  10                  15

Glu Pro Gly Trp Glu Glu Glu Glu
             20
```

<210> 126
<211> 24
<212> PRT
<213> Homo sapiens

<400> 126
Ala Lys Val Pro Val Ala Lys Ile Ser Thr Phe Pro Glu Gly Glu Pro
1   5   10   15

Gly Pro Gln Ser Pro Cys Glu Glu
            20

<210> 127
<211> 23
<212> PRT
<213> Homo sapiens

<400> 127
Pro Ala Glu Val Thr Pro Ser Glu Ser Ser Glu Ser Ile Ser Leu Val
1   5   10   15

Thr Gln Ile Ala Asn Pro Ala
            20

<210> 128
<211> 26
<212> PRT
<213> Homo sapiens

<400> 128
Leu Ser Gln Lys Leu Leu Glu Ala Ser Leu Glu Glu Gln Gly Leu Ala
1   5   10   15

Val Asp Val Gly Glu Thr Gly Pro Ser Pro
            20   25

<210> 129
<211> 27
<212> PRT
<213> Homo sapiens

<400> 129
Trp Leu Pro Ala Gly Pro Leu Gly Pro Leu Leu Thr Pro Gly Lys Gly
1   5   10   15

Leu Ser Lys Ser Arg Pro Glu Thr Leu Thr Cys
            20   25

<210> 130
<211> 229
<212> PRT

57

<213> Homo sapiens

<220>
<221> SITE
<222> (117)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (195)
<223> Xaa equals any amino acid

<400> 130

```
Ile Gly Gly Glu Gly Pro Val Ser Pro Thr Ser Thr Ala Arg Pro Cys
 1               5               10              15

Ser Ser Lys Asp Ala Ser Ser Ser Phe Trp Asp Arg Ser Leu Gly Ser
            20              25              30

Thr Arg Ala Ser Gly Ala Val Ala Gly Leu Ala Ile Cys Val Thr Arg
        35              40              45

Glu Met Leu Ser Leu Leu Ser Asp Gly Val Thr Ser Ala Gly Gly Ser
    50              55              60

Thr Glu Val Thr Arg Phe Ser Ser Gln Gly Leu Trp Gly Pro Gly Ser
65              70              75              80

Pro Ser Gly Asn Val Glu Ile Leu Ala Thr Gly Thr Phe Ala Ser Phe
            85              90              95

Gly Asp Met Gly Glu Met Pro Met Ser Ser Ser Ser Ser Ser Ser Gln
            100             105             110

Pro Gly Ser Ser Xaa Met Leu Cys Ser Ala Arg Cys Phe Arg Ala Ser
        115             120             125

Ser Gly Pro Ala Pro Ala Leu Thr Asp Gly Leu Tyr Arg Asn Thr Asp
    130             135             140

Ala Arg Ile Leu Asn Gly Lys Gln Leu Leu Glu Pro Ser Trp Cys Arg
145             150             155             160

Gly Pro Gly Trp Arg Gly Cys Leu Gln Gly Ala Leu Arg Ser Pro Pro
            165             170             175

Ser Ser Pro Pro Ser Arg Thr Gly Lys Ala Arg Arg Gln Thr Ile Pro
            180             185             190

Gly Ala Xaa Leu Val His Tyr Ser Arg Leu Leu Gly Pro Thr Ala Gly
        195             200             205

Tyr Arg Gly Glu Pro Trp Cys His His Arg Ala Gln Leu Cys Gln Thr
    210             215             220

Val Cys Pro Ser Gly
225
```

<210> 131

<211> 26
<212> PRT
<213> Homo sapiens

<400> 131
Ala Arg Pro Cys Ser Ser Lys Asp Ala Ser Ser Ser Phe Trp Asp Arg
 1   5   10   15

Ser Leu Gly Ser Thr Arg Ala Ser Gly Ala
                20   25

<210> 132
<211> 27
<212> PRT
<213> Homo sapiens

<400> 132
Arg Phe Ser Ser Gln Gly Leu Trp Gly Pro Gly Ser Pro Ser Gly Asn
 1   5   10   15

Val Glu Ile Leu Ala Thr Gly Thr Phe Ala Ser
                20   25

<210> 133
<211> 25
<212> PRT
<213> Homo sapiens

<400> 133
Tyr Arg Asn Thr Asp Ala Arg Ile Leu Asn Gly Lys Gln Leu Leu Glu
 1   5   10   15

Pro Ser Trp Cys Arg Gly Pro Gly Trp
                20   25

<210> 134
<211> 28
<212> PRT
<213> Homo sapiens

<400> 134
Pro Gly Trp Arg Gly Cys Leu Gln Gly Ala Leu Arg Ser Pro Pro Ser
 1   5   10   15

Ser Pro Pro Ser Arg Thr Gly Lys Ala Arg Arg Gln
                20   25

<210> 135
<211> 7
<212> PRT
<213> Homo sapiens

<400> 135

59

```
Gly Gly Arg Gly Gly Arg Gly
 1               5
```

<210> 136
<211> 39
<212> PRT
<213> Homo sapiens

<400> 136
```
Tyr Gln Lys Asn Val Thr Phe Tyr Pro Phe Phe Gly Thr Ile Leu Lys
 1               5                  10                  15

Thr Gly Phe Thr Gly Gly Lys Ser Arg Asn Ser Ala Lys Gly Ser Pro
                20                  25                  30

Pro Ser Ala Arg Pro Lys Gly
                35
```

<210> 137
<211> 161
<212> PRT
<213> Homo sapiens

<400> 137
```
Pro Leu Val Cys Gly Arg Ser Gly Val Phe Ser Ala Ala Pro Thr Pro
 1               5                  10                  15

Ser Arg Ser Pro Pro Pro Asn Gln Arg Arg Thr Gly Pro Arg Leu Pro
                20                  25                  30

Arg His Ser Arg Thr Gly Ser Leu Leu Ala Gly Ala Gly Pro Gly Leu
                35                  40                  45

Ala Ala Leu Val Thr Met Ser Glu Thr Ser Phe Asn Leu Ile Ser Glu
        50                  55                  60

Lys Cys Asp Ile Leu Ser Ile Leu Arg Asp His Pro Glu Asn Arg Ile
65                  70                  75                  80

Tyr Arg Arg Lys Ile Glu Glu Leu Ser Lys Arg Phe Thr Ala Ile Arg
                85                  90                  95

Lys Thr Lys Gly Asp Gly Asn Cys Phe Tyr Arg Ala Leu Gly Tyr Ser
                100                 105                 110

Tyr Leu Glu Ser Leu Leu Gly Lys Ser Arg Glu Ile Phe Lys Phe Lys
        115                 120                 125

Glu Arg Val Leu Gln Thr Pro Asn Asp Leu Leu Ala Ala Gly Phe Glu
        130                 135                 140

Glu His Lys Phe Arg Asn Phe Phe Asn Ala Phe Thr Val Trp Trp Asn
145                 150                 155                 160

Trp
```

<210> 138
<211> 23
<212> PRT
<213> Homo sapiens

<400> 138
Val Phe Ser Ala Ala Pro Thr Pro Ser Arg Ser Pro Pro Pro Asn Gln
1   5   10   15

Arg Arg Thr Gly Pro Arg Leu
            20

<210> 139
<211> 29
<212> PRT
<213> Homo sapiens

<400> 139
Leu Ala Ala Leu Val Thr Met Ser Glu Thr Ser Phe Asn Leu Ile Ser
1   5   10   15

Glu Lys Cys Asp Ile Leu Ser Ile Leu Arg Asp His Pro
            20   25

<210> 140
<211> 31
<212> PRT
<213> Homo sapiens

<400> 140
Glu Glu Leu Ser Lys Arg Phe Thr Ala Ile Arg Lys Thr Lys Gly Asp
1   5   10   15

Gly Asn Cys Phe Tyr Arg Ala Leu Gly Tyr Ser Tyr Leu Glu Ser
            20   25   30

<210> 141
<211> 20
<212> PRT
<213> Homo sapiens

<400> 141
Asn Asp Leu Leu Ala Ala Gly Phe Glu Glu His Lys Phe Arg Asn Phe
1   5   10   15

Phe Asn Ala Phe
            20

<210> 142
<211> 23
<212> PRT

61

<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any amino acid

<400> 142
Arg Pro Leu Val Leu Leu Arg Xaa Arg Glu Ser Ala Phe Leu Glu Leu
  1   5   10   15

Leu Ala Lys Cys Glu Lys Leu
                20

<210> 143
<211> 8
<212> PRT
<213> Homo sapiens

<400> 143
Phe Gly Tyr Thr Val Ile Asn Thr
  1   5

<210> 144
<211> 29
<212> PRT
<213> Homo sapiens

<400> 144
Glu Phe Gly Thr Ser Ala Leu Val Ser Thr Cys Ser Pro Ile Pro Ser
  1   5   10   15

Pro Asp Phe Ser Leu Leu Leu Thr Pro Ser Lys Ala Ile
                20   25

<210> 145
<211> 151
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any amino acid

<400> 145
Arg Val Val His Arg Phe Phe Lys Ser Ser Ala Phe Trp Pro Xaa Glu
  1   5   10   15

Val Lys Gln Pro Arg Gly Gly Pro Lys Thr Gly Ser Arg Lys Glu Gly
                20   25   30

Ala Gly Ser Arg Ala Pro Gln Pro Val Val Arg Ser Phe Cys Gly Ser
                35   40   45

```
Val Gly Ala Glu Gly Arg Met Glu Lys Leu Arg Leu Leu Gly Leu Arg
    50                  55                  60

Tyr Gln Glu Tyr Val Thr Arg His Pro Ala Ala Thr Ala Gln Leu Glu
 65                  70                  75                  80

Thr Ala Val Arg Gly Phe Ser Tyr Leu Leu Ala Gly Arg Phe Ala Asp
                 85                  90                  95

Ser His Glu Leu Ser Glu Leu Val Tyr Ser Ala Ser Asn Leu Leu Val
                100                 105                 110

Leu Leu Asn Asp Gly Ile Leu Arg Lys Glu Leu Arg Lys Lys Leu Pro
                115                 120                 125

Val Ser Leu Ser Gln Gln Lys Leu Leu Thr Trp Leu Ser Val Leu Glu
    130                 135                 140

Cys Val Glu Val Phe Met Glu
145                 150
```

```
<210> 146
<211> 44
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (39)
<223> Xaa equals any amino acid

<400> 146
Pro Gly Cys Ile Ala Gly Trp Glu Leu Leu Ser Val Val Gln Gly Pro
  1               5                  10                  15

Gly Pro Arg Pro Pro Pro Arg Pro Arg Pro Arg Lys Xaa His Ser Arg
                20                  25                  30

Ala Gly Cys Gly Leu Glu Xaa Gly Ala Gly Gly Asp
             35                  40
```

```
<210> 147
<211> 102
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any amino acid

<400> 147
```

```
Gly Val Thr Pro Trp Gly Gly Gly Leu Gln Arg Xaa Leu Pro Val Ala
 1               5                   10                  15

Thr Trp Cys Leu Trp Glu Leu Val Leu Gly Thr Leu Met Gly Val Cys
            20              25                  30

Gly Pro Ser Cys Arg Pro Ala Pro Ser Ser Arg Ala Pro Gly Leu Gly
        35              40                  45

Pro Pro Thr Pro Leu Leu Ser Ser Gly Lys Ser Pro Cys Gly Ser Ser
    50              55                  60

Pro Gly Ser Arg Ser Gly Ala Met Arg Gly Ala Pro Trp Pro Arg Phe
65              70                  75                  80

Arg Lys Ala Cys Val Cys Ala Arg Gly Lys Gly Leu His Asp Lys Arg
                85                  90                  95

Thr Arg Phe Asp Leu Asn
            100
```

<210> 148
<211> 34
<212> PRT
<213> Homo sapiens

<400> 148
```
Ala Thr Trp Cys Leu Trp Glu Leu Val Leu Gly Thr Leu Met Gly Val
 1               5                   10                  15

Cys Gly Pro Ser Cys Arg Pro Ala Pro Ser Ser Arg Ala Pro Gly Leu
            20                  25                  30

Gly Pro
```

<210> 149
<211> 27
<212> PRT
<213> Homo sapiens

<400> 149
```
Pro Thr Pro Leu Leu Ser Ser Gly Lys Ser Pro Cys Gly Ser Ser Pro
 1               5                   10                  15

Gly Ser Arg Ser Gly Ala Met Arg Gly Ala Pro
            20                  25
```

<210> 150
<211> 59
<212> PRT
<213> Homo sapiens

<400> 150
```
Ala Arg Asp Phe Gly Lys Cys Cys Tyr Val Asn Thr Thr Ile Thr Ile
```

64

```
        1                 5                   10                  15
      Lys Ile Val Tyr Ser Ser Ser Thr Pro Cys Pro Glu Thr Cys Leu Phe
                20                      25                  30

      Cys Leu Val Ser Ser Ser Pro His His Gln Pro Leu Ser Thr Asp Ser
                35                      40                  45

      Phe Ser Val Cys Ile Val Tyr Ile Ile Ser Arg
            50                      55
```

<210> 151
<211> 31
<212> PRT
<213> Homo sapiens

<400> 151
```
      Thr Ile Lys Ile Val Tyr Ser Ser Ser Thr Pro Cys Pro Glu Thr Cys
        1                 5                   10                  15

      Leu Phe Cys Leu Val Ser Ser Ser Pro His His Gln Pro Leu Ser
                20                      25                  30
```

<210> 152
<211> 48
<212> PRT
<213> Homo sapiens

<400> 152
```
      Gly Thr Ser Thr Asn Pro Arg Ile Pro Arg Val His Leu Leu Val Ala
        1                 5                   10                  15

      Lys Asp Ile Ser Arg Thr Val Ile Ser Leu Val Lys Phe Ile Cys Ser
                20                      25                  30

      Cys Ala Arg Phe His Phe Phe Gln Gln Ser Glu Thr Thr Trp Gly Thr
                35                      40                  45
```

<210> 153
<211> 22
<212> PRT
<213> Homo sapiens

<400> 153
```
      Leu Val Ala Lys Asp Ile Ser Arg Thr Val Ile Ser Leu Val Lys Phe
        1                 5                   10                  15

      Ile Cys Ser Cys Ala Arg
                20
```

65

<210> 154
<211> 9
<212> PRT
<213> Homo sapiens

<400> 154
Leu Ser Pro Pro Arg Gly Ala Cys Arg
 1   5

<210> 155
<211> 10
<212> PRT
<213> Homo sapiens

<400> 155
Gly Arg Pro Thr Arg Pro Leu Arg Val Ala
 1   5   10

<210> 156
<211> 120
<212> PRT
<213> Homo sapiens

<400> 156
Ala Trp Cys Pro Gln Thr His Thr Thr Ser Cys Leu Met Gly Pro Phe
 1   5   10   15

Cys Cys Tyr Ser Pro Leu Pro Gly Asp Met Pro Thr Met Ala Arg Pro
            20   25   30

Cys Pro Gln Thr Trp Val Ser Thr His Val Arg Pro Ala Thr Gly Leu
            35   40   45

Ala Arg Gln Ser Ala Glu Ala Leu Gly Cys Leu Trp Leu Ser Ser Gly
        50   55   60

Arg Ile Ser Arg Ser Ser Leu Gly Thr Trp Trp Leu Trp Trp Val Ser
65   70   75   80

Ser Leu Leu Trp Asn Val Gly Arg Pro Gly Ala Thr Gln Ser Pro Gln
                85   90   95

Ser His Gly Gly Lys Met Gly Asn Pro Trp Pro Ser Ser Pro Glu Gly
            100   105   110

Thr Gln Cys Pro Gly Gly Pro Cys
            115   120

<210> 157
<211> 25
<212> PRT
<213> Homo sapiens

<400> 157
Cys Cys Tyr Ser Pro Leu Pro Gly Asp Met Pro Thr Met Ala Arg Pro

```
        1                5                      10                      15

Cys Pro Gln Thr Trp Val Ser Thr His
                20                      25
```

<210> 158
<211> 18
<212> PRT
<213> Homo sapiens

<400> 158
```
Ala Leu Gly Cys Leu Trp Leu Ser Ser Gly Arg Ile Ser Arg Ser Ser
 1                5                      10                      15

Leu Gly
```

<210> 159
<211> 28
<212> PRT
<213> Homo sapiens

<400> 159
```
Trp Asn Val Gly Arg Pro Gly Ala Thr Gln Ser Pro Gln Ser His Gly
 1                5                      10                      15

Gly Lys Met Gly Asn Pro Trp Pro Ser Ser Pro Glu
                20                      25
```

<210> 160
<211> 121
<212> PRT
<213> Homo sapiens

<400> 160
```
Leu Ser Ala Tyr Arg Thr Leu Asp Asn Thr His Ile His Thr His Lys
 1                5                      10                      15

Asn Ala His Glu Pro Asn Pro Glu Lys Val Pro Ala Gly Pro Pro Pro
                20                      25                      30

Ser Pro Pro Pro Pro Thr Ser Pro Leu Asp Ser Glu Asp Arg Arg Gly
            35                      40                      45

Thr Arg Gly His Leu Gly Arg Pro Ala Gly Ser Pro Pro Thr Pro Pro
        50                      55                      60

Arg Pro Ser His His Thr Pro Ile Ile Thr Leu Tyr Ile Thr Gln Ser
65                      70                      75                      80

Phe Trp Phe Ser Arg Thr Arg Leu Pro Lys Tyr His Leu Gln Lys Val
                    85                      90                      95

Thr Leu Ala Gly His Tyr Phe Val Tyr Leu Phe Pro Met Gln Lys Lys
                100                     105                     110
```

67

Asn Glu Asn Glu Lys Arg Gly Ile Pro
        115   120

<210> 161
<211> 29
<212> PRT
<213> Homo sapiens

<400> 161
Leu Ser Ala Tyr Arg Thr Leu Asp Asn Thr His Ile His Thr His Lys
 1   5   10   15

Asn Ala His Glu Pro Asn Pro Glu Lys Val Pro Ala Gly
            20   25

<210> 162
<211> 13
<212> PRT
<213> Homo sapiens

<400> 162
Leu Asp Ser Glu Asp Arg Arg Gly Thr Arg Gly His Leu
 1   5   10

<210> 163
<211> 28
<212> PRT
<213> Homo sapiens

<400> 163
Ile Ile Thr Leu Tyr Ile Thr Gln Ser Phe Trp Phe Ser Arg Thr Arg
 1   5   10   15

Leu Pro Lys Tyr His Leu Gln Lys Val Thr Leu Ala
            20   25

<210> 164
<211> 10
<212> PRT
<213> Homo sapiens

<400> 164
Val Ile Ile Leu Phe Ile Cys Ser Leu Cys
 1   5   10

<210> 165
<211> 40
<212> PRT
<213> Homo sapiens

68

<400> 165

Ile	Asp	Phe	Phe	Val	Val	Val	Ser	Phe	Leu	Tyr	Phe	Thr	Asp	Ile	Thr
1				5					10					15	

Arg Ile Val Tyr Ser Pro Ser Ser Phe Leu Leu Thr Ala His Trp Ile
            20   25   30

Thr His Thr Tyr Thr Pro Thr Lys
        35   40

<210> 166
<211> 40
<212> PRT
<213> Homo sapiens

<400> 166
Ile Asp Phe Phe Val Val Val Ser Phe Leu Tyr Phe Thr Asp Ile Thr
 1   5   10   15

Arg Ile Val Tyr Ser Pro Ser Ser Phe Leu Leu Thr Ala His Trp Ile
            20   25   30

Thr His Thr Tyr Thr Pro Thr Lys
        35   40

<210> 167
<211> 25
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any amino acid

<400> 167
Gly Val Val Ser Arg Gly Phe Xaa Ala Leu Leu Ser Gly Gly Arg Gly
 1   5   10   15

Glu Leu Glu Ala Gly Gly Val Ala Ala
            20   25

<210> 168
<211> 45
<212> PRT
<213> Homo sapiens

<400> 168
Asp Phe Phe Phe Phe Asn Val Arg Arg Arg Asn Ser Gln Ile Thr Leu
 1   5   10   15

Leu Pro Ala Lys Arg Leu Phe Thr Thr Ser Pro Leu Leu Gln Leu Gly
            20   25   30

Leu Ser Val Phe Asn Leu Thr Ile Leu Asn Val Arg Lys

69

<210> 169
<211> 30
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (9)
<223> Xaa equals any amino acid

<400> 169
Cys Ile Asp His Xaa Gly Lys Arg Xaa Leu Thr Val Pro Val Arg Ile
 1   5   10   15

Pro Gly Arg Pro Thr Arg Pro Cys Phe Tyr Ser Leu Thr Ile
            20   25   30

<210> 170
<211> 123
<212> PRT
<213> Homo sapiens

<400> 170
Val Gln Gln Ser Leu Ser Ile Phe Lys Ser Leu Pro Ser Leu Leu Met
 1   5   10   15

Leu Gln Arg Val Phe Ser Cys Thr Tyr Ile Leu Ala Glu Val Phe Gly
            20   25   30

Tyr Ile Pro Thr Val Glu Phe Leu Gly Tyr Val Val Pro Ala Ser Ser
            35   40   45

Pro Thr Asn Ser Val Gln Met Val Thr Pro Ser Val Cys Met Thr Leu
        50   55   60

Ser Val Cys Ala Arg Gly Phe Leu Leu His Ile Ser Ser Gln Thr Phe
65   70   75   80

Phe Phe Phe Phe Asp Arg Val Trp Ala Leu Ser Pro Arg Leu Val Ala
                85   90   95

Val Glu Leu Glu Ser Arg His Gly Ile Pro Ala Trp Gly Asn Arg Val
            100   105   110

Arg Leu His Pro Pro Pro Arg Glu Lys Pro Asn
            115   120

<210> 171

70

<211> 43
<212> PRT
<213> Homo sapiens

<400> 171
Val Gln Gln Ser Leu Ser Ile Phe Lys Ser Leu Pro Ser Leu Leu Met
1   5   10   15

Leu Gln Arg Val Phe Ser Cys Thr Tyr Ile Leu Ala Glu Val Phe Gly
            20   25   30

Tyr Ile Pro Thr Val Glu Phe Leu Gly Tyr Val
        35   40

<210> 172
<211> 41
<212> PRT
<213> Homo sapiens

<400> 172
Val Pro Ala Ser Ser Pro Thr Asn Ser Val Gln Met Val Thr Pro Ser
1   5   10   15

Val Cys Met Thr Leu Ser Val Cys Ala Arg Gly Phe Leu Leu His Ile
            20   25   30

Ser Ser Gln Thr Phe Phe Phe Phe Phe
        35   40

<210> 173
<211> 39
<212> PRT
<213> Homo sapiens

<400> 173
Asp Arg Val Trp Ala Leu Ser Pro Arg Leu Val Ala Val Glu Leu Glu
1   5   10   15

Ser Arg His Gly Ile Pro Ala Trp Gly Asn Arg Val Arg Leu His Pro
            20   25   30

Pro Pro Arg Glu Lys Pro Asn
        35

<210> 174
<211> 182
<212> PRT
<213> Homo sapiens

<400> 174
Ala Ser Leu Ser Pro Lys Pro Val Ala Gly Leu Gly Asn Gln Gly Gly
1   5   10   15

Leu Arg Arg Gln Arg Glu Ala Glu Gly Pro Ala Gly Arg Met Gly Pro
            20   25   30

71

Lys Ala Arg Leu Gly Gly Gln Gln Gln Thr Trp Val Glu Gly Glu Trp
        35   40   45

Val Met Gly Arg Ala Cys Ala Gly Trp Ser Pro Ala Gly Asp Gly Arg
        50   55   60

Gly His Lys Ala Arg Gln Lys Ala Val Met Ala Ala Glu Arg Ser Thr
65   70   75   80

Gln Gly Pro Pro Leu Gly His Glu Cys Arg Pro Pro Arg Gly Arg Arg
                85   90   95

Leu Ala Thr Ser Val Gly Pro Arg Cys Pro Ser Ala Gln Cys Pro Arg
                100   105   110

Ala Arg Gln Pro Pro Arg Thr Glu Thr Arg Ser Ala Gly Gly Leu Gln
        115   120   125

Leu Leu Pro Ile Leu Ser Trp Ala Ala Ser Ser Pro His Leu Ser Lys
        130   135   140

Leu Ala Gly Glu Leu Glu Pro Leu Arg Pro Gln Pro His Ile Ile Leu
145   150   155   160

Thr Pro Leu Leu Gly Ala Met Pro Cys Cys Thr Arg Ile Phe Cys Phe
                165   170   175

Ser Leu Thr Met Gly Ser
                180

<210> 175
<211> 43
<212> PRT
<213> Homo sapiens

<400> 175
Ala Ser Leu Ser Pro Lys Pro Val Ala Gly Leu Gly Asn Gln Gly Gly
  1   5   10   15

Leu Arg Arg Gln Arg Glu Ala Glu Gly Pro Ala Gly Arg Met Gly Pro
                20   25   30

Lys Ala Arg Leu Gly Gly Gln Gln Gln Thr Trp
        35   40

<210> 176
<211> 42
<212> PRT
<213> Homo sapiens

<400> 176
Val Glu Gly Glu Trp Val Met Gly Arg Ala Cys Ala Gly Trp Ser Pro
  1   5   10   15

Ala Gly Asp Gly Arg Gly His Lys Ala Arg Gln Lys Ala Val Met Ala
                20   25   30

72

Ala Glu Arg Ser Thr Gln Gly Pro Pro Leu
        35   40

<210> 177
<211> 44
<212> PRT
<213> Homo sapiens

<400> 177
Gly His Glu Cys Arg Pro Pro Arg Gly Arg Arg Leu Ala Thr Ser Val
 1   5   10   15

Gly Pro Arg Cys Pro Ser Ala Gln Cys Pro Arg Ala Arg Gln Pro Pro
            20   25   30

Arg Thr Glu Thr Arg Ser Ala Gly Gly Leu Gln Leu
        35   40

<210> 178
<211> 53
<212> PRT
<213> Homo sapiens

<400> 178
Leu Pro Ile Leu Ser Trp Ala Ala Ser Ser Pro His Leu Ser Lys Leu
 1   5   10   15

Ala Gly Glu Leu Glu Pro Leu Arg Pro Gln Pro His Ile Ile Leu Thr
            20   25   30

Pro Leu Leu Gly Ala Met Pro Cys Cys Thr Arg Ile Phe Cys Phe Ser
        35   40   45

Leu Thr Met Gly Ser
    50

<210> 179
<211> 39
<212> PRT
<213> Homo sapiens

<400> 179
Ile Arg His Ser Leu Pro His Leu Leu Val Lys Val Ile Thr Leu Thr
 1   5   10   15

Ser Val Lys Cys Asn Pro Ile Met Asn Ile Ala Arg Val Ile Tyr Cys
            20   25   30

Gln Val Arg Asn Arg Leu Val
        35

<210> 180

73

<211> 97
<212> PRT
<213> Homo sapiens

<400> 180
Phe Leu Pro Leu Pro Gln Thr Ala His Val Ile Ala Ser Phe Leu Ser
 1   5   10   15

Phe Phe Ser Phe Cys Leu Ser Phe Phe Leu Ser Ser Lys Ala Phe Leu
            20   25   30

Leu Leu Leu Ser Phe Ser Lys Phe Phe Phe Ile Leu Phe Phe Ser Phe
            35   40   45

Cys Cys Leu Lys Phe Ser His Leu Ala Ser Leu Ser Leu Val Val Ser
        50   55   60

Arg Gly Val Pro Trp Thr Arg Lys His Gly Gly Ser Leu Ala Glu Trp
65   70   75   80

Val Phe Gly Ala Glu Thr Ser Arg Gly Pro Pro Ser Ser Asp Leu Ile
                85   90   95

Asp

<210> 181
<211> 103
<212> PRT
<213> Homo sapiens

<400> 181
Leu Leu Leu Phe Tyr Leu Ser Phe His Phe Ala Ser His Phe Ser Ser
 1   5   10   15

Leu Gln Arg Pro Phe Cys Tyr Phe Cys Leu Phe Leu Ser Phe Ser Leu
            20   25   30

Ser Cys Ser Phe Leu Ser Val Val Ser Asn Ser His Ile Trp Pro Val
            35   40   45

Phe Leu Leu Ser Ser Pro Gly Val Tyr Leu Gly Pro Gly Asn Thr Glu
        50   55   60

Gly Ala Trp Leu Ser Gly Phe Ser Val Pro Lys Pro Pro Glu Gly Leu
65   70   75   80

Leu Pro Val Ile Ser Leu Thr Asp Leu Glu Thr Ala Ser Arg Ser Val
                85   90   95

Thr Pro Ala Val Val Pro Ser
            100

<210> 182
<211> 54
<212> PRT
<213> Homo sapiens

<400> 182

```
Phe Phe Ile Gly Leu Glu Thr Arg Ala Asn Ser Ile Met Phe Ser Lys
 1               5                  10                  15

Glu Thr Asp Leu Ser Cys Trp Ile Arg Gly Thr Asn Pro Thr Tyr Met
                20                  25                  30

Ile Phe Phe Leu Phe Leu Ser Cys Ser Tyr Gly Thr Val Leu Phe Gly
            35                  40                  45

Thr Phe Ala Thr Arg Gly
        50
```

<210> 183
<211> 10
<212> PRT
<213> Homo sapiens

<400> 183

```
Pro Glu Gly Glu Cys Cys Pro Val Cys Pro
 1               5                  10
```

<210> 184
<211> 10
<212> PRT
<213> Homo sapiens

<400> 184

```
Pro Glu Gly Glu Cys Cys Pro Val Cys Pro
 1               5                  10
```

<210> 185
<211> 49
<212> PRT
<213> Homo sapiens

<400> 185

```
Ile Leu Phe Asn Ile Pro Phe Cys Pro Phe Phe Val Phe Lys Glu Ser
 1               5                  10                  15

Ser Asp Phe Val Ser Phe Ser Ala Gly Asp Leu Asn Asp Thr Lys Gln
                20                  25                  30

Ser Leu Leu Ser Leu Asp Leu Gln Lys Leu Ala Gly Gly Lys Lys Ser
            35                  40                  45

Asn
```

<210> 186
<211> 72
<212> PRT

75

<213> Homo sapiens

<400> 186
Arg Ala Ala Ala Leu Ala Cys Ser Cys Pro Thr Gly Ile Glu Trp Arg
1   5   10   15

Glu Leu Gln Lys Leu Ser Ile Pro Lys Ala Val Ser Val Val Glu Ala
            20   25   30

Asp Trp Ile Phe Ala Leu Pro Leu Thr Pro Cys Pro Ser Leu Arg Glu
            35   40   45

Gly Ser Tyr Ala Arg Thr Pro Thr Ser Gly Thr Arg Val Ala Cys Ala
        50   55   60

Thr Ser Phe Asp Thr Glu Asn Phe
65   70

<210> 187
<211> 21
<212> PRT
<213> Homo sapiens

<400> 187
Ser Arg Leu Asp Phe Cys Ser Ala Pro Asp Pro Leu Ser Leu Phe Glu
1   5   10   15

Gly Gly Glu Leu Cys
            20

<210> 188
<211> 68
<212> PRT
<213> Homo sapiens

<400> 188
Ile Ser Tyr Leu Val Lys Lys Gly Thr Ala Thr Glu Ser Ser Arg Glu
1   5   10   15

Ile Pro Met Ser Thr Leu Pro Arg Arg Asn Met Glu Ser Ile Gly Leu
            20   25   30

Gly Met Ala Arg Thr Gly Gly Met Val Val Ile Thr Val Leu Leu Ser
        35   40   45

Val Ala Met Phe Leu Leu Val Leu Gly Phe Ile Ile Ala Leu Ala Leu
        50   55   60

Gly Ser Arg Lys
65

<210> 189
<211> 24
<212> PRT
<213> Homo sapiens

76

<400> 189
Met Ala Arg Thr Gly Gly Met Val Val Ile Thr Val Leu Leu Ser Val
 1   5   10   15

Ala Met Phe Leu Leu Val Leu Gly
            20

<210> 190
<211> 25
<212> PRT
<213> Homo sapiens

<400> 190
Asn Met Glu Ser Ile Gly Leu Gly Met Ala Arg Thr Gly Gly Met Val
 1   5   10   15

Val Ile Thr Val Leu Leu Ser Val Ala
            20   25

<210> 191
<211> 42
<212> PRT
<213> Homo sapiens

<400> 191
His Glu Ser Ile Ser Tyr Leu Val Lys Lys Gly Thr Ala Thr Glu Ser
 1   5   10   15

Ser Arg Glu Ile Pro Met Ser Thr Leu Pro Arg Arg Asn Met Glu Ser
            20   25   30

Ile Gly Leu Gly Met Ala Arg Thr Gly Gly
            35   40

<210> 192
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (52)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (62)
<223> Xaa equals any amino acid

<400> 192
Thr Ala Asp Glu Leu Gly Cys Gln Asp Met Asn Cys Ile Arg Gln Ala
 1   5   10   15

His His Val Ala Leu Leu Arg Ser Gly Gly Gly Ala Asp Ala Leu Val

77

```
                    20                      25                      30
Val Leu Leu Ser Gly Leu Val Leu Leu Val Thr Gly Leu Thr Leu Ala
        35                      40                      45

Gly Leu Ala Xaa Ala Pro Ala Pro Ala Arg Pro Leu Ala Xaa
        50                      55                      60
```

```
<210> 193
<211> 146
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (64)
<223> Xaa equals any amino acid

<400> 193
Met Ser Glu Gln Glu Ala Gln Ala Pro Gly Gly Arg Gly Leu Pro Pro
 1               5                  10                      15

Asp Met Leu Ala Glu Gln Val Glu Leu Trp Trp Ser Gln Gln Pro Arg
                20                      25                      30

Arg Ser Ala Leu Cys Phe Val Val Ala Val Gly Leu Val Ala Gly Cys
         35                      40                      45

Gly Ala Gly Gly Val Ala Leu Leu Ser Thr Thr Ser Ser Arg Ser Xaa
        50                      55                      60

Glu Trp Arg Leu Ala Thr Gly Thr Val Leu Cys Leu Leu Ala Leu Leu
 65                      70                      75                  80

Val Leu Val Lys Gln Leu Met Ser Ser Ala Val Gln Asp Met Asn Cys
                85                      90                      95

Ile Arg Gln Ala His His Val Ala Leu Leu Arg Ser Gly Gly Gly Ala
            100                     105                     110

Asp Ala Leu Val Val Leu Leu Ser Gly Leu Val Leu Leu Val Thr Gly
            115                     120                     125

Leu Thr Leu Ala Gly Leu Ala Ala Ala Pro Ala Pro Ala Arg Pro Leu
            130                     135                     140

Ala Ala
145
```

```
<210> 194
<211> 27
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (26)
```

<223> Xaa equals any amino acid

<400> 194
Val Ala Ala Leu Phe Asp Val Pro Val Leu Arg Ser Arg Gly Gly Asp
1   5   10   15

Cys Ala Ser Asp Gly Arg Arg Gly Arg Xaa Thr
            20   25

<210> 195
<211> 44
<212> PRT
<213> Homo sapiens

<400> 195
Glu Gly Arg Glu Ala Gly Ser Gly Leu Ser Val Asp Ser Arg Asp Lys
1   5   10   15

Gly His Glu Gly Arg Gly Leu Gly Pro Phe Arg Ile Pro Gln Asp Ser
            20   25   ´30

Gln Val Gln Leu Cys Gln Lys Gly Thr Phe His Val
        35   40

<210> 196
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)...(5)
<223> Xaa equals any amino acid

<400> 196
Xaa Xaa Xaa Xaa Xaa Asn His Pro Val Ser Tyr Phe Leu His Asn Asn
1   5   10   15

Pro Ala Phe Pro Ile Asn Leu His Ile Phe Pro Gln Gln Leu Cys Ser
            20   25   30

Val Ile Pro Thr Trp Glu Lys Ser Gln Gly
        35   40

<210> 197
<211> 190
<212> PRT
<213> Homo sapiens

<400> 197
Ser Gly Gly Ala Lys Pro Pro Ala Lys Met Cys Lys Gly Leu Ala Ala
1   5   10   15

```
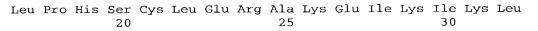Leu Pro His Ser Cys Leu Glu Arg Ala Lys Glu Ile Lys Ile Lys Leu
         20              25                  30

Gly Ile Leu Leu Gln Lys Pro Asp Ser Val Gly Asp Leu Val Ile Pro
         35              40                  45

Tyr Asn Glu Lys Pro Glu Lys Pro Ala Lys Thr Gln Lys Thr Ser Leu
     50              55                  60

Asp Glu Ala Leu Gln Trp Arg Asp Ser Leu Asp Lys Leu Leu Gln Asn
 65              70                  75                      80

Asn Tyr Gly Leu Ala Ser Phe Lys Ser Phe Leu Lys Ser Glu Phe Ser
             85              90                  95

Glu Glu Asn Leu Glu Phe Trp Ile Ala Cys Glu Asp Tyr Lys Lys Ile
             100             105                 110

Lys Ser Pro Ala Lys Met Ala Glu Lys Ala Lys Gln Ile Tyr Glu Glu
         115             120                 125

Phe Ile Gln Thr Glu Ala Pro Lys Glu Val Asn Ile Asp His Phe Thr
     130             135                 140

Lys Asp Ile Thr Met Lys Asn Leu Val Glu Pro Ser Leu Ser Ser Phe
145             150                 155                 160

Asp Met Ala Gln Lys Arg Ile His Ala Leu Met Glu Lys Asp Ser Leu
             165             170                 175

Pro Arg Phe Val Arg Ser Glu Phe Tyr Gln Glu Leu Ile Lys
             180             185                 190


<210> 198
<211> 31
<212> PRT
<213> Homo sapiens

<400> 198
Ala Leu Pro His Ser Cys Leu Glu Arg Ala Lys Glu Ile Lys Ile Lys
 1               5                   10                  15

Leu Gly Ile Leu Leu Gln Lys Pro Asp Ser Val Gly Asp Leu Val
         20              25                  30



<210> 199
<211> 25
<212> PRT
<213> Homo sapiens

<400> 199
Asp Ser Leu Asp Lys Leu Leu Gln Asn Asn Tyr Gly Leu Ala Ser Phe
 1               5                   10                  15

Lys Ser Phe Leu Lys Ser Glu Phe Ser
         20                  25
```

80

<210> 200
<211> 29
<212> PRT
<213> Homo sapiens

<400> 200
Glu Asn Leu Glu Phe Trp Ile Ala Cys Glu Asp Tyr Lys Lys Ile Lys
1   5   10   15

Ser Pro Ala Lys Met Ala Glu Lys Ala Lys Gln Ile Tyr
            20   25

<210> 201
<211> 28
<212> PRT
<213> Homo sapiens

<400> 201
Asp Ile Thr Met Lys Asn Leu Val Glu Pro Ser Leu Ser Ser Phe Asp
1   5   10   15

Met Ala Gln Lys Arg Ile His Ala Leu Met Glu Lys
            20   25

<210> 202
<211> 16
<212> PRT
<213> Homo sapiens

<400> 202
Ile Arg His Glu Asn Phe Glu Arg Ser Ser Thr Val Asp Lys Lys Leu
1   5   10   15

<210> 203
<211> 16
<212> PRT
<213> Homo sapiens

<400> 203
Asn Ser Ile Thr Tyr Tyr Arg Glu Thr Phe Trp Glu Arg Lys Ser Gln
1   5   10   15

<210> 204
<211> 32
<212> PRT

81

<213> Homo sapiens

<400> 204
Ile Trp Gln Thr Ser Leu Leu Ser Tyr Phe Gln Lys Leu Pro Gln Leu
 1   5   10   15

Pro Gln Pro Ser Ala Ala Thr Thr Leu Ile Arg Gln Gln Pro Ala Thr
            20   25   30

<210> 205
<211> 19
<212> PRT
<213> Homo sapiens

<400> 205
Lys Gln Gly Ser Leu Pro Ala Lys Arg Arg Lys Leu Ser Glu Gly Ser
 1   5   10   15

Gly Val Leu

<210> 206
<211> 51
<212> PRT
<213> Homo sapiens

<400> 206
Val Lys Ser Thr Leu Gly Arg Leu Ile Val Leu Ser Ser Ala Leu Asn
 1   5   10   15

Lys Ile Phe Pro Leu Thr Leu Ala Ser Ser Val Leu Tyr Ser Gly Arg
            20   25   30

Thr Ser Pro Pro Arg Glu Ser Phe Val Ser Gln Leu Asn Cys Cys Phe
            35   40   45

Ser Asp Lys
        50